

10 20 30 40 50 60 70
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 150 160 170 180 190 200 210
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 220 230 240 250 260 270 280
 CTTCTACTCA GCTGTTACCC ACTCTGGGAC CAGCAGTCTT TCTGATAACT GGGAGAGGGC AGTAAGGAGG
 290 300 310 320 330 340 350
 ACTTCCTGGA GGGGGTGACT GTCCAGAGCC TGGAACTGTG CCCACACCAG AAGCCATCAG CAGCAAGGAC
 359 368 377 386 395 404
 ACC ATG CGG CTT CCG GGT GCG ATG CCA GCT CTG GCC CTC AAA GGC GAG CTG CTG
 M R L P G A M P A L A L K G E L L 17
 413 422 431 440 449 458
 TTG CTG TCT-CTC CTG TTA CTT CTG GAA CCA CAG ATC TCT CAG GGC CTG GTC GTC
 L L S L L L L E P Q I S Q G L V V 35
 467 476 485 494 503 512
 ACA CCC CCG GGG CCA GAG CTT GTC CTC AAT GTC TCC AGC ACC TTC GTT CTG ACC
 T P P G P E L V L N V S S T F V L T 53
 521 530 539 548 557 566
 TGC TCG GGT TCA GCT CCG GTG GTG TGG GAA CGG ATG TCC CAG GAG CCC CCA CAG
 C S G S A P V V W E R M S Q E P P Q 71
 575 584 593 602 611 620
 GAA ATG GCC AAG GCC CAG GAT GGC ACC TTC TCC AGC GTG CTC ACA CTG ACC AAC
 E M A K A Q D G T F S S V L T L T N 89
 629 638 647 656 665 674
 CTC ACT GGG CTA GAC ACG GGA GAA TAC TTT TGC ACC CAC AAT GAC TCC CGT GGA
 L T G L D T G E Y F C T H N D S R G 107
 683 692 701 710 719 728
 CTG GAG ACC GAT GAG CGG AAA CGG CTC TAC ATC TTT GTG CCA GAT CCC ACC GTG
 L E T D E R K R L Y I F V P D P T V 125
 737 746 755 764 773 782
 GGC TTC CTC CCT AAT GAT GCC GAG GAA CTA TTC ATC TTT CTC ACG GAA ATA ACT
 S F L P N D A E E L F I F L T E I T 143
 791 800 809 818 827 836
 GAG ATC ACC ATT CCA TGC CGA GTA ACA GAC CCA CAG CTG GTG GTG ACA CTG CAC
 E I T I P C R V T D P Q L V V T L H 161
 845 854 863 872 881 890
 GAG AAG AAA GGG GAC GTT GCA CTG CCT GTC CCC TAT GAT CAC CAA CGT GGC TTT
 E K K G D V A L P V P Y D H Q R G F 179
 899 908 917 926 935 944
 TCT GGT ATC TTT GAG GAC AGA AGC TAC ATC TGC AAA ACC ACC ATT GGG GAC AGG
 S G I F E D R S Y I C K T T I G D R 197

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953 962 971 980 989 998
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 E V D S D A Y Y V Y R L Q V S S I N 215

1007 1016 1025 1034 1043 1052
 GTC TCT GTG AAC GCA GTG CAG ACT GTG GTC CGC CAG GGT GAG AAC ATC ACC CTC
 V S V N A V Q T V V R Q G E N I T L 233

1061 1070 1079 1088 1097 1106
 ATG TGC ATT GTG ATC GGG AAT GAG GTG GTC AAC TTC GAG TGG ACA TAC CCC CGC
 M C I V I G N E V V N F E W T Y P R 251

1115 1124 1133 1142 1151 1160
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 K E S G R L V E P V T D F L L D M P 269

1169 1178 1187 1196 1205 1214
 TAC CAC ATC CGC TCC ATC CTG CAC ATC CCC AGT GCC GAG TTA GAA GAC TCG GGG
 Y H I R S I L H I P S A E L E D S G 287

1223 1232 1241 1250 1259 1268
 ACC TAC ACC TGC AAT GTG ACG GAG AGT GTG AAT GAC CAT CAG GAT GAA AAG GCC
 T Y T C N V T E S V N D H Q D E K A 305

1277 1286 1295 1304 1313 1322
 ATC AAC ATC ACC GTG GTT GAG AGC GGC TAC GTG CGG CTC CTG GGA GAG GTG GGC
 I N I T V V E S G Y V R L L G E V G 323

1331 1340 1349 1358 1367 1376
 ACA CTA CAA TTT GCT GAG CTG CAT CGG AGC CGG ACA CTG CAG GTA GTG TTC GAG
 T L Q F A E L H R S R T L Q V V F E 341

1385 1394 1403 1412 1421 1430
 GCC TAC CCA CCG CCC ACT GTC CTG TGG TTC AAA GAC AAC CGC ACC CTG GGC GAC
 A Y P P P T V L W F K D N R T L G D 359

1439 1448 1457 1466 1475 1484
 TCC AGC GCT GGC GAA ATC GCC CTG TCC ACG CGC AAC GTG TCG GAG ACC CGG TAT
 S S A G E I A L S T R N V S E T R Y 377

1493 1502 1511 1520 1529 1538
 GTG TCA GAG CTG ACA CTG GTT CGC GTG AAG GTG GCA GAG GCT GGC CAC TAC ACC
 V S E L T L V R V K V A E A G H Y T 391

1547 1556 1565 1574 1583 1592
 ATG CGG GCC TTC CAT GAG GAT GCT GAG GTC CAG CTC TCC TTC CAG CTA CAG ATC
 M R A F H E D A E V Q L S F Q L Q I 413

1601 1610 1619 1628 1637 1646
 AAT GTC CCT GTC CGA GTG CTG GAG CTA AGT GAG AGC CAC CCT GAC AGT GGG GAA
 N V P V R V L E L S E S H P D S G E 431

1655 1664 1673 1682 1691 1700
 CAG ACA GTC CGC TGT CGT GGC CGG GGC ATG CCC CAG CCG AAC ATC ATC TGG TCT
 Q T V R C R G R G M P Q P N I I W S 449

1709 1718 1727 1736 1745 1754
 GCC TGC AGA GAC CTC AAA AGG TGT CCA CGT GAG CTG CCG CCC ACG CTG CTG GGG
 A C R D L K R C P R E L P P T L L G 467

00409590

1763	1772	1781	1790	1799	1808
AAC AGT TCC GAA GAG GAG AGC CAG CTG GAG ACT AAC GTG ACG TAC TGG GAG GAG					
N S S E E E S Q L E T N V T Y W E E					
1817	1826	1835	1844	1853	1862
GAG CAG GAG TTT GAG GTG GTG AGC ACA CTG CGT CTG CAG CAC GTG GAT CGG CCA					
E Q E F E V V S T L R L Q H V D R P					
1871	1880	1889	1898	1907	1916
CTG TCG GTG CGC TGC ACG CTG CGC AAC GCT GTG GGC CAG GAC ACG CAG GAG GTC					
L S V R C T L R N A V G Q D T Q E V					
1925	1934	1943	1952	1961	1970
ATC GTG GTG CCA CAC TCC TTG CCC TTT AAG GTG GTG GTG ATC TCA GCC ATC CTG					
I V V P H S L P F K V V V I S A I L					
1979	1988	1997	2006	2015	2024
GCC CTG GTG GTG CTC ACC ATC ATC TCC CTT ATC ATC CTC ATC ATG CTT TGG CAG					
A L V V L T I I S L I I L I M L W Q					
2033	2042	2051	2060	2069	2078
AAG AAG CCA CGT TAC GAG ATC CGA TGG AAG GTG ATT GAG TCT GTG AGC TCT GAC					
K K P R Y E I R W K V I E S V S S D					
2087	2096	2105	2114	2123	2132
GGC CAT GAG TAC ATC TAC GTG GAC CCC ATG CAG CTG CCC TAT GAC TCC ACG TGG					
G H E Y I Y V D P M Q L P Y D S T W					
2141	2150	2159	2168	2177	2186
GAG CTG CCG CGG GAC CAG CTT GTG CTG GGA CGC ACC CTC GGC TCT GGG GCC TTT					
E L P R D Q L V L G R T L G S G A F					
2195	2204	2213	2222	2231	2240
GGG CAG GTG GTG GAG GCC ACG GCT CAT GGC CTG AGC CAT TCT CAG GCC ACG ATG					
S Q V V E A T A H G L S H S Q A T M					
2249	2258	2267	2276	2285	2294
AAA GTG GCC GTC AAG ATG CTT AAA TCC ACA GCC CGC AGC AGT GAG AAG CAA GCC					
K V A V K M L K S T A R S S E K Q A					
2303	2312	2321	2330	2339	2348
TTT ATG TCG GAG CTG AAG ATC ATG AGT CAC CTT GGG CCC CAC CTG AAC GTG GTC					
L M S E L K I M S H L G P H L N V V					
2357	2366	2375	2384	2393	2402
AAC CTG TTG GGG GCC TGC ACC AAA GGA GGA CCC ATC TAT ATC ATC ACT GAG TAC					
I L L G A C T K G G P I Y I I T E Y					
2411	2420	2429	2438	2447	2456
CGC CGC TAC GGA GAC CTG GTG GAC TAC CTG CAC CGC AAC AAA CAC ACC TTC CTG					
S R Y G D L V D Y L H R N K H T F L					
2465	2474	2483	2492	2501	2510
GAG CAC CAC TCC GAC AAG CGC CGC CCG CCC AGC GCG GAG CTC TAC AGC AAT GCT					
I H H S D K R R P S A E L Y S N A					
2519	2528	2537	2546	2555	2564
GTG CCC GTT GGG CTC CCC CTG CCC AGC CAT GTG TCC TTG ACC GGG GAG AGC GAC					
P V G L P L P S H V S L T G G E S D					

2573 2582 2591 2600 2609 2618
 GGT GGC TAC ATG GAC ATG AGC AAG GAC GAG TCG GTG GAC TAT GTG CCC ATG CTG
 G G Y M D M S K D E S V D Y V P M L 755

2627 2636 2645 2654 2663 2672
 GAC ATG AAA GGA GAC GTC AAA TAT GCA GAC ATC GAG TCC TCC AAC TAC ATG GCC
 D M K G D V K Y A D I E S S N Y M A 773

2681 2690 2699 2708 2717 2726
 CCT TAC GAT AAC TAC GTT CCC TCT GCC CCT GAG AGG ACC TGC CGA GCA ACT TTG
 P Y D N Y V P S A P E R T C R A T L 791

2735 2744 2753 2762 2771 2780
 ATC AAC GAG TCT CCA GTG CTA AGC TAC ATG GAC CTC GTG GGC TTC AGC TAC CAG
 I N E S P V L S Y M D L V G F S Y Q 809

2789 2798 2807 2816 2825 2834
 GTG GCC AAT GGC ATG GAG TTT CTG GCC TCC AAG AAC TGC GTC CAC AGA GAC CTG
 V A N G M E F L A S K N C V H R D L 827

2843 2852 2861 2870 2879 2888
 GCG GCT AGG AAC GTG CTC ATC TGT GAA GGC AAG CTG GTC AAG ATC TGT GAC TTT
 A A R N V L I C E G K L V K I C D F 845

2897 2906 2915 2924 2933 2942
 GGC CTG GCT CGA GAC ATC ATG CGG GAC TCG AAT TAC ATC TCC AAA GGC AGC ACC
 G L A R D I M R D S N Y I S K G S T 863

2951 2960 2969 2978 2987 2996
 ITT TTG CCT TTA AAG TGG ATG GCT CCG GAG AGC ATC TTC AAC AGC CTC TAC ACC
 F L P L K W M A P E S I F N S L Y T 881

3005 3014 3023 3032 3041 3050
 ACC CTG AGC GAC GTG TGG TCC TTC GGG ATC CTG CTC TGG GAG ATC TTC ACC TTG
 T L S D V W S F G I L L W E I F T L 899

3059 3068 3077 3086 3095 3104
 TGT GGC ACC CCT TAC CCA GAG CTG CCC ATG AAC GAG CAG TTC TAC AAT GCC ATC
 T G T P Y P E L P M N E Q F Y N A I 917

3113 3122 3131 3140 3149 3158
 AAA CGG GGT TAC CGC ATG GCC CAG CCT GCC CAT GCC TCC GAC GAG ATC TAT GAG
 K R G Y R M A Q P A H A S D E I Y E 935

3167 3176 3185 3194 3203 3212
 ATC ATG CAG AAG TGC TGG GAA GAG AAG TTT GAG ATT CGG CCC CCC TTC TCC CAG
 I M Q K C W E E K F E I R P P F S Q 953

3221 3230 3239 3248 3257 3266
 TTG GTG CTG CTT CTC GAG AGA CTG TTG GGC GAA GGT TAC AAA AAG AAG TAC CAG
 V L L L E R L L G E G Y K K K Y Q 971

3275 3284 3293 3302 3311 3320
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 V D E E F L R S D H P A I L R S Q 989

3329 3338 3347 3356 3365 3374
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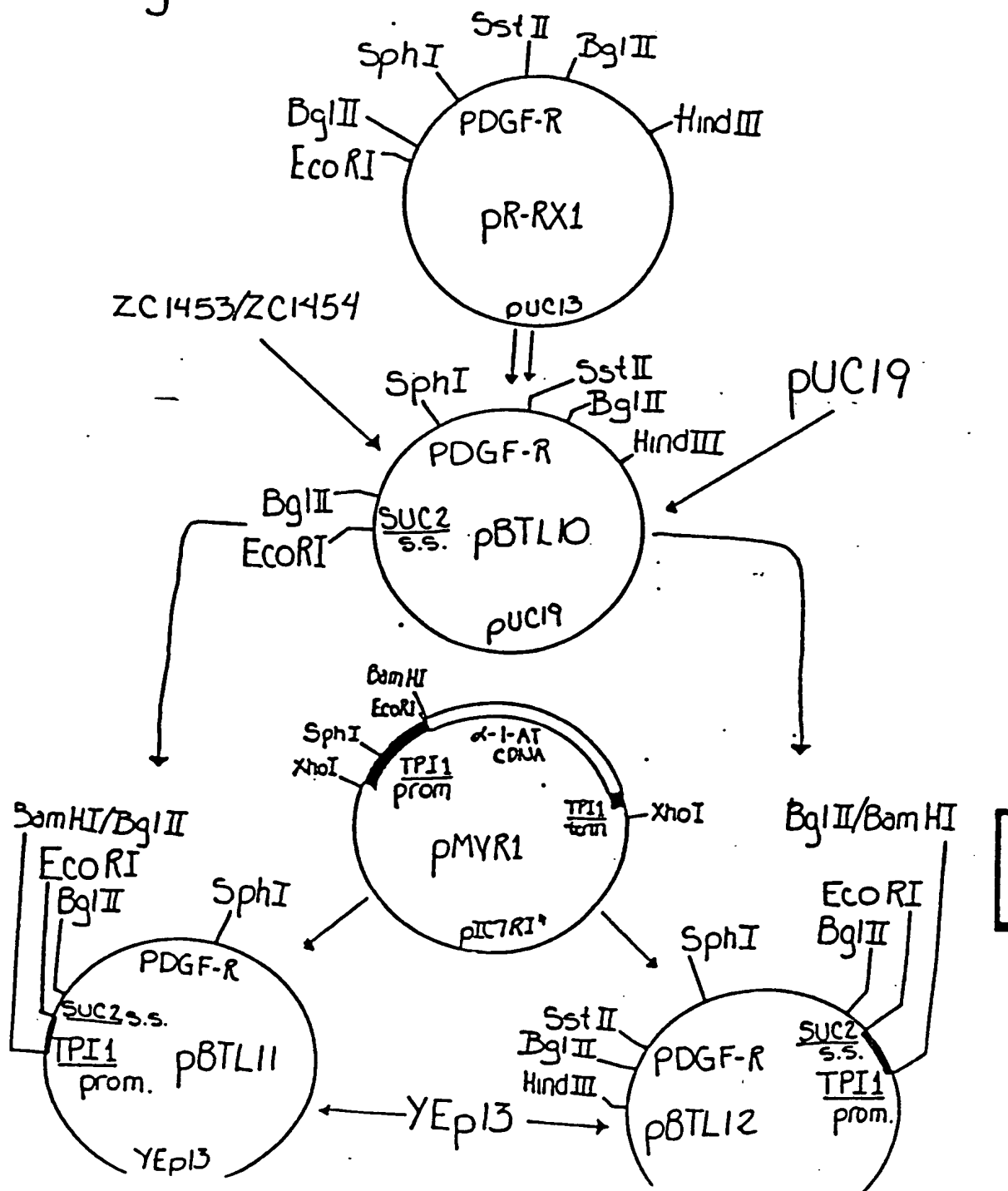
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Figure 1. Cloning

3383	3392	3401	3410	3419	3428	
CTC TAT ACT GCC GTG CAG CCC AAT GAG GGT GAC AAC GAC TAT ATC ATC CCC CTG						
L Y T A V Q P N E G D N D Y I I P L						1025
3437	3446	3455	3464	3473	3482	
CCT GAC CCC AAA CCC GAG GTT GCT GAC GAG GGC CCA CTG GAG GGT TCC CCC AGC						
P D P K P E V A D E G P L E G S P S						1043
3491	3500	3509	3518	3527	3536	
CTA GCC AGC TCC ACC CTG AAT GAA GTC AAC ACC TCC TCA ACC ATC TCC TGT GAC						
L A S S T L N E V N T S S T I S C D						1061
3545	3554	3563	3572	3581	3590	
AGC CCC CTG GAG CCC CAG GAC GAA CCA GAG CCA GAG CCC CAG CTT GAG CTC CAG						
S P L E P Q D E P E P Q L E L Q						1079
3599	3608	3617	3626	3635	3644	
GTG GAG CCG GAG CCA GAG CTG GAA CAG TTG CCG GAT TCG GGG TGC CCT GCG CCT						
V E P E P E L E Q L P D S G C P A P						1097
3653	3662	3671	3684	3694	3704	
CGG GCG GAA GCA GAG GAT AGC TTC CTG TAG GGGGCTGGCC CCTACCCTGC CCTGCCTGAA						
R A E A E D S F L						1106
3714	3724	3734	3744	3754	3764	3774
GCTCCCCCCC TGCCAGCACC CAGCATCTCC TGGCCTGGCC TGACCGGGCT TCCTGTCAGC CAGGCTGCCC						
3784	3794	3804	3814	3824	3834	3844
TTATCAGCTG TCCCCTTCTG GAAGCTTTCT GCTCCTGACG TGTTGTGCCC CAAACCCTGG GGCTGGCTTA						
3854	3864	3874	3884	3894	3904	3914
GGAGGCAAGA AAATGCAAGG GGCCGTGACC AGCCCTCTGC CTCCAGGGAG GCCAACTGAC TCTGAGCCAG						
3924	3934	3944	3954	3964	3974	3984
GGTTCCCCCA GGGAATCAG TTTTCCATA TGTAAGATGG GAAAGTTAGG CTTGATGACC CAGAATCTAG						
3994	4004	4014	4024	4034	4044	4054
GATTCTCTCC CTGGCTGACA GGTGGGGAGA CCGAATCCCT CCCTGGGAAG ATTCTTGGAG TTAGTGAGGT						
4064	4074	4084	4094	4104	4114	4124
GGTAAATTAA CTTTTTCTG TTCAGCCAGC TACCCCTCAA GGAATCATAG CTCTCTCCTC GCACTTTTAA						
4134	4144	4154	4164	4174	4184	4194
TCCACCCAGG AGCTAGGGAA GAGACCCTAG CCTCCCTGGC TGCTGGCTGA GCTAGGGCCT AGCCTTGAGC						
4204	4214	4224	4234	4244	4254	4264
AGTGTGTCCT CATCCAGAAG AAAGCCAGTC TCCTCCCTAT GATGCCAGTC CCTGCGTTCC CTGGCCCCGAG						
4274	4284	4294	4304	4314	4324	4334
CTGGTCTGGG GCCATTAGGC AGCCTAATTA ATGCTGGAGG CTGAGCCAAG TACAGGACAC CCCCAGCCTG						
4344	4354	4364	4374	4384	4394	4404
CAGCCCTTGC CCAGGGCACT TGGAGCACAC GCAGCCATAG CAAGTGCCTG TGTCCCTGTC CTTCAGGCCC						
4414	4424	4434	4444	4454	4464	4474
ATCAGTCCTG GGGCTTTTTC TTTATCACC TCAGTCTTAA TCCATCCACC AGAGTCTAGA AGGCCAGACG						
4484	4494	4504	4514	4524	4534	4544
GGCCCCGCAT CTGTGATGAG AATGTAAATG TGCCAGTGTG GAGTGCCAC GTGTGTGTGC CAGTATATGG						

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Figure 2



259211 00406590

Figure 3.

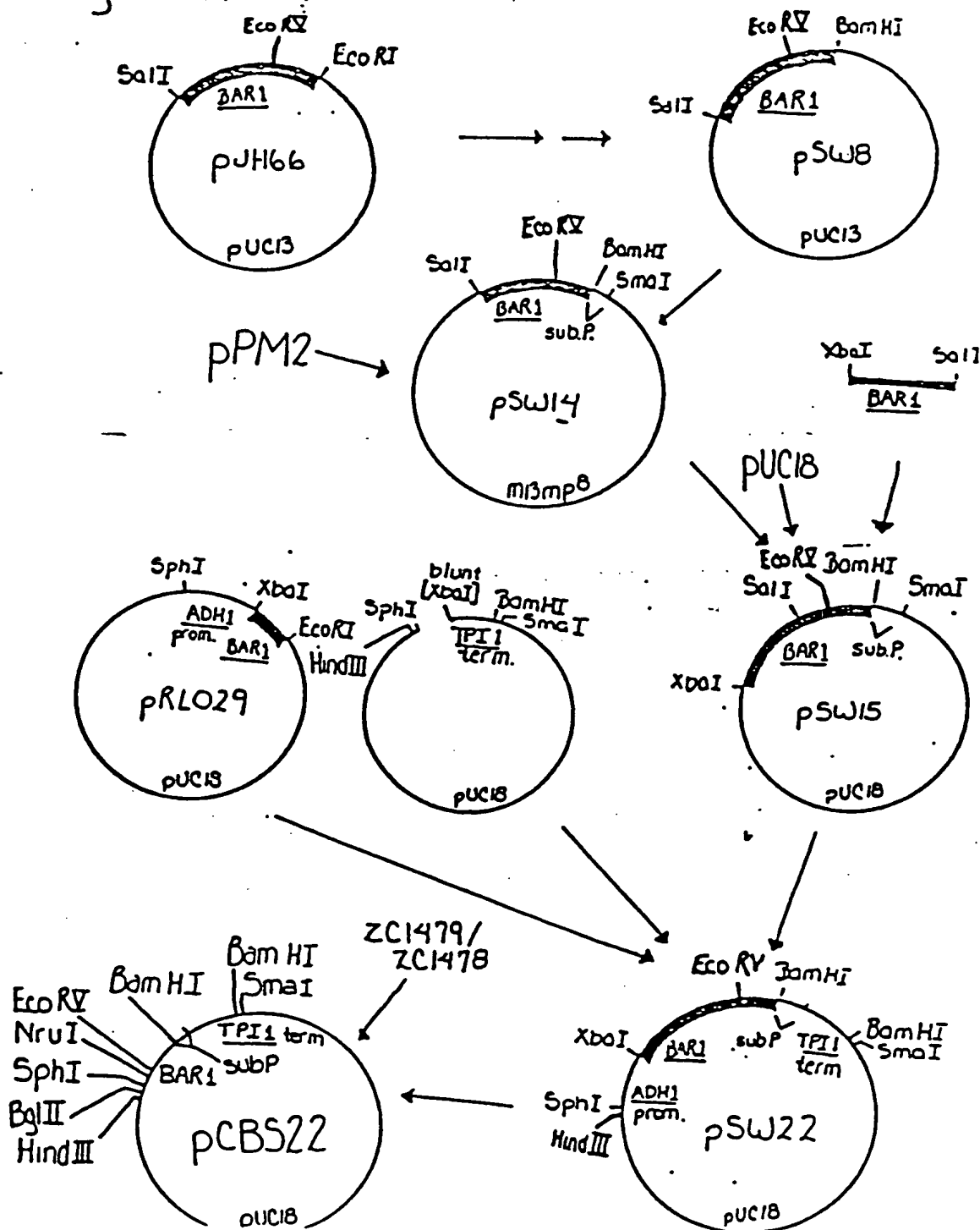


Figure 4

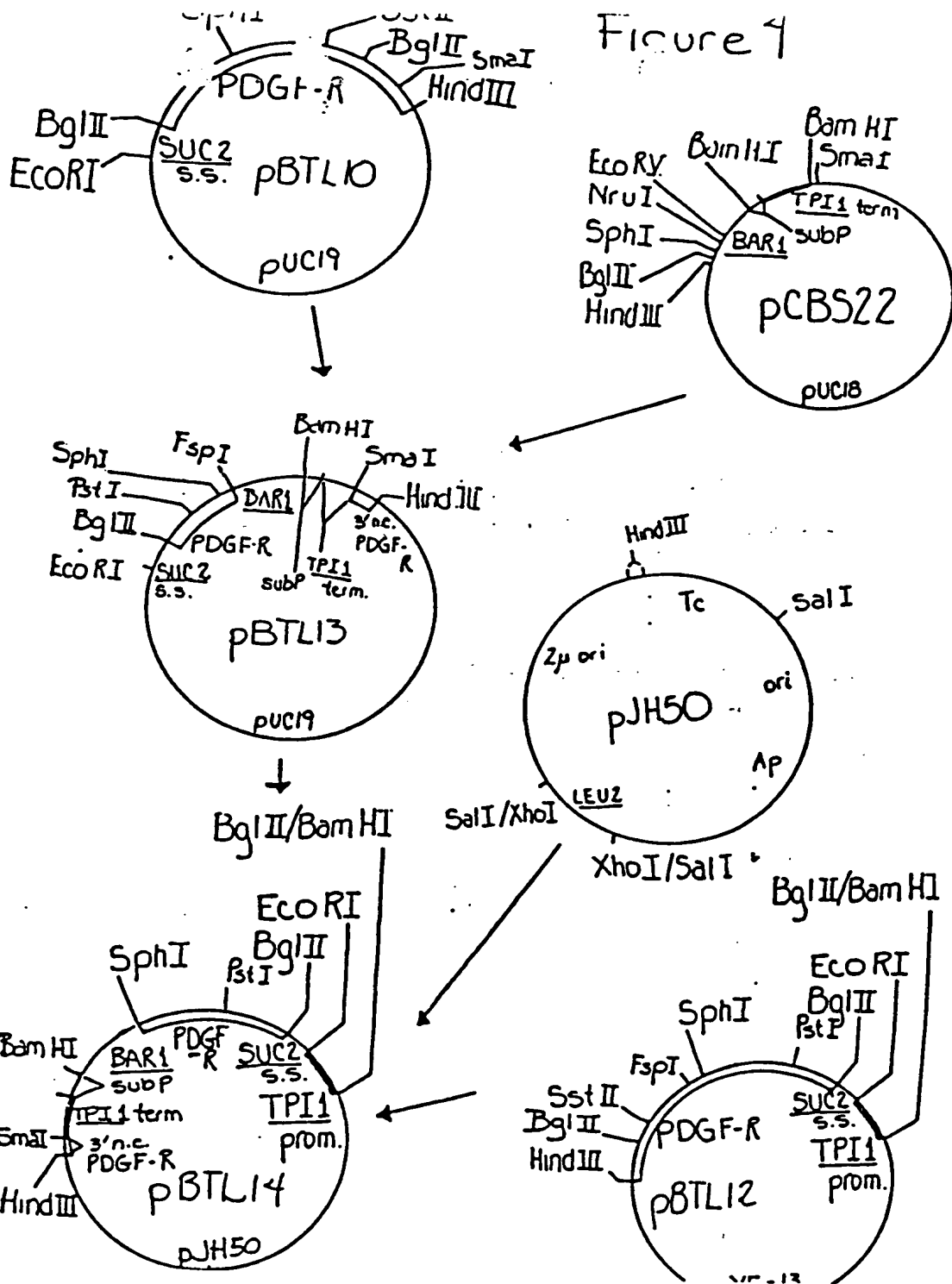
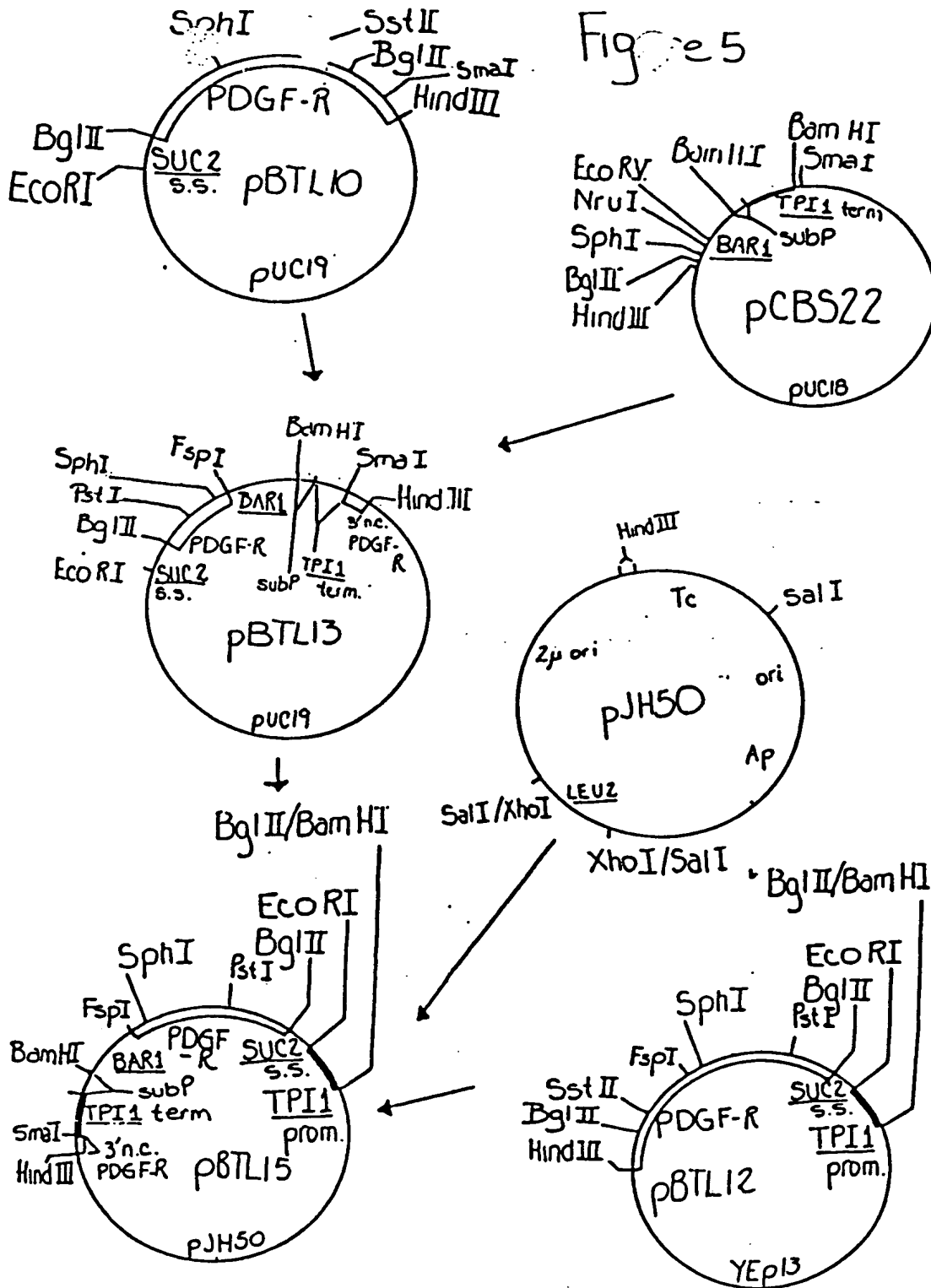


Figure 5



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Figure 6.

Figure 7

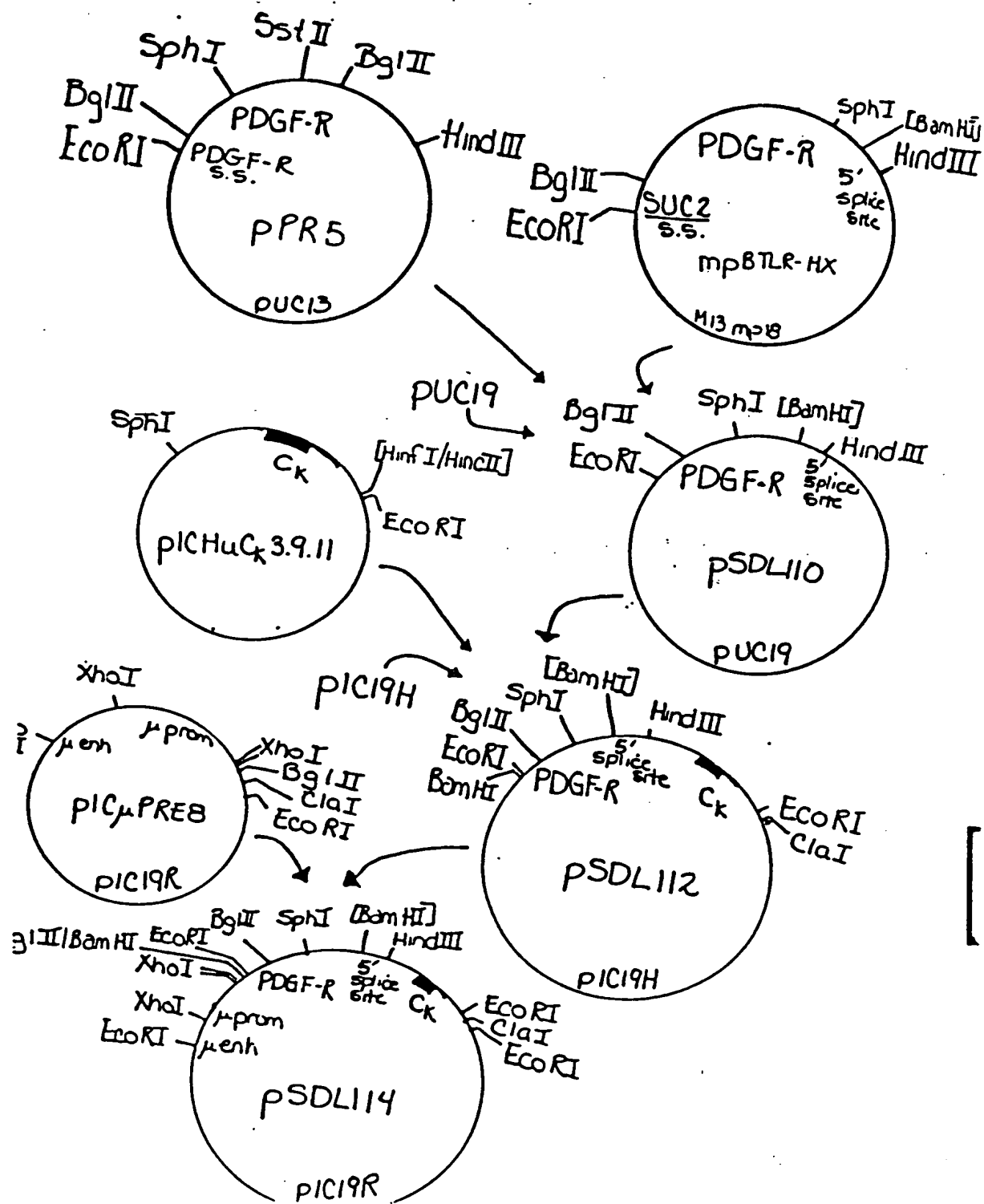
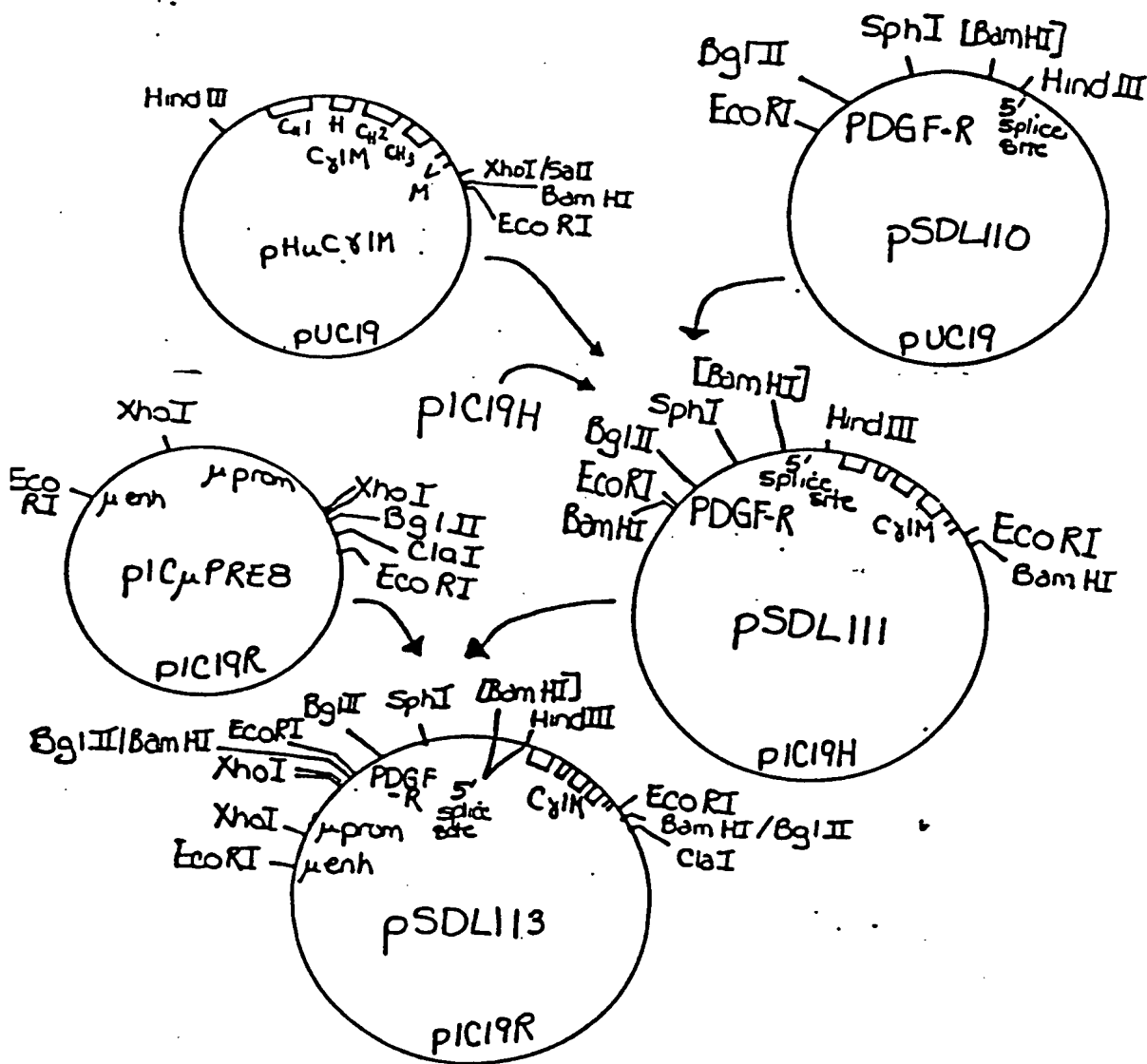


Figure 8



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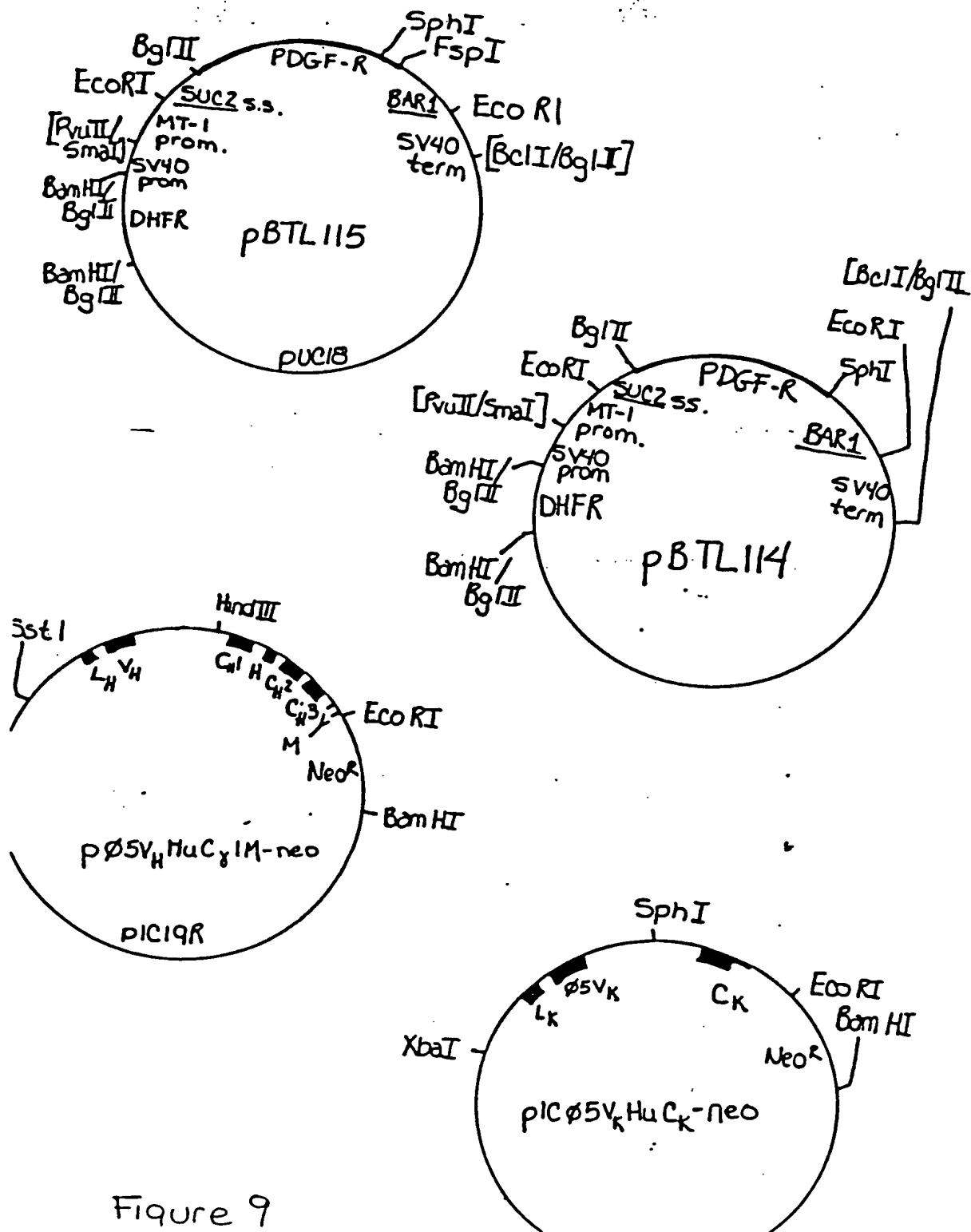
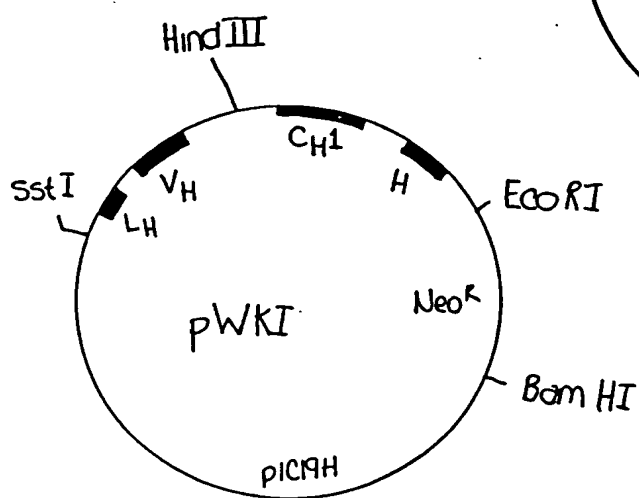
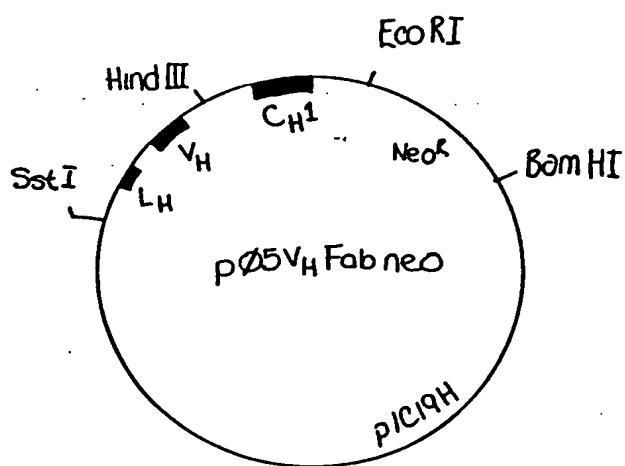
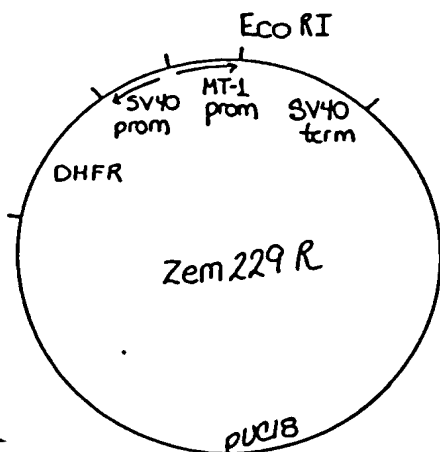


Figure 9

Figure 10



08950400-112597

FIGURE 11

1 GCCCTGGGGACGGACCGTGGGCGGCGCGCAGCGGCGGGACCGCTTTTGGGGACGTGGTGGCCAGCGCCT
 70 TCCTGCAGACCCACAGGGAAGTACTCCCTTTGACCTCCGGGGAGCTGCGACCAAGTTATACGTTGCTGG
 139 TCGAAAAGTGACAAATTCTAGGAAAAGAGCTAAAAGCCGGATCGGTGACCGAAAGTTTCCCAGAGCTATG
 M
 1
 208 GGGACTTCCCATCCGGCGTTCCTGGTCTTAGGCTGTCTTCTCACAGGGCTGAGCCTAATCCTCTGCCAG
 G T S H P A F L V L G C L L T G L S L I L C Q
 277 CTTTCATTACCTCTATCCTTCCAAATGAAAATGAAAAGGTTGTGACGCTGAATTCATCCTTTTCTCTG
 L S L P S I L P N E N E K V V Q L N S S F S L
 346 AGATGCTTTGGGGACAGTGAAGTGAGCTGGCAGTACCCCATGTCTGAAGAAGAGAGCTCCGATGTGGAA
 R C F G E S E V S W Q Y P M S E E E S S D V E
 415 ATCAGAAATGAAGAAAACAACAGCGGCCCTTTTGTGACGGTCTTGGAAGTGAGCAGTGCCTCGGCGGGCC
 I R N E E N N S G L F V T V L E V S S A S A A
 484 CACACAGGGTTGTACACTTGCTATTACAACCACACTCAGACAGAAGAGAATGAGCTTGAAGGCAGGCAC
 H T G L Y T C Y Y N H T Q T E E N E L E G R H
 553 ATTTACATCTATGTGCCAGACCCAGATGTAGCCTTTGTACCTCTAGGAATGACGGATTATTTAGTCATC
 I Y I Y V P D P D V A F V P L G M T D Y L V I
 622 GTGGAGGATGATGATTCTGCCATTATACCTTGTGCGACAACTGATCCCGAGACTCCTGTAACCTTACAC
 V E D D D S A I I P C R T T D P E T P V T L H
 691 AACAGTGAGGGGGTGGTACCTGCCTCCTACGACAGCAGACAGGGGCTTTAATGGGACCTTCACTGTAGGG
 N S E G V V P A S Y D S R Q G F N G T F T V G
 760 CCCTATATCTGTGAGGCCACCGTCAAAGGAAAGAAGTTCCAGACCATCCCATTTAATGTTTATGCTTTA
 P Y I C E A T V K G K K F Q T I P F N V Y A L
 829 AAAGCAACATCAGAGCTGGATCTAGAAATGGAAGCTCTTAAACCGTGTATAAGTCAGGGGAAACGATT
 K A T S E L D L E M E A L K T V Y K S G E T I
 898 GTGGTCACCTGTGCTGTTTTTAACAATGAGGTGGTTGACCTTCAATGGACTTACCCTGGAGAAGTGA
 V V T C A V F N N E V V D L Q W T Y P G E V K

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967 GGCAAAGGCATCAATACTGGAAGAAATCAAAGTCCCATCCATCAAATTGGTGACACTTTGACGGTC
G K G I T I L E E I K V P S I K L V Y T L T V

1036 CCCGAGGCCACGGTGAAGACAGTGGAGATTACGAATGTGCTGCCCGCCAGGCTACCAGGGAGGTCAAA
P E A T V K D S G D Y E C A A R Q A T R E V K

1105 GAAATGAAGAAAGTCACTATTTCTGTCCATGAGAAAGCTTTCATTGAAATCAAACCCACCTTCAGCCAG
E H K K V T I S V H E K G F I E I K P T F S Q

1174 TTGGAAGCTGTCAACCTGCATGAAGTCAAACATTTTGTGTAGAGGTGCCGGCCTACCCACCTCCCAGG
L E A V N L H E V K H F V V E V R A Y P P P R

1243 ATATCCTGGCTGAAAAACAATCTGACTCTGATTGAAAAATCTCACTGAGATCACCAGTGTGGAAAAG
I S W L K N N L T L I E N L T E I T T D V E K

1312 ATTCAAGAAATAAGGTATCGAAGCAAATTAAGCTGATCCGTGCTAAGGAAGAAGACAGTGGCCATTAT
I Q E I R Y R S K L K L I R A K E E D S G H Y

1381 ACTATTGTAGCTCAAAATGAAGATGCTGTGAAGAGCTATACTTTGAACTGTTAACTCAAGTTCCTTCA
T I V A Q N E D A V K S Y T F E L L T Q V P S

1450 TCCATTCTGGACTTGGTGGATGATCACCATGGCTCAACTGGGGGACAGACGGTGAGGTGCACAGCTGAA
S I L D L V D D H H G S T G G Q T V R C T A E

1519 GGCACGCCGCTTCTGATATTGAGTGGATGATATGCAAAGATATTAAGAAATGTAATAATGAAACTTCC
G T P L P D I E W H I C K D I K K C N N E T S

1588 TGGACTATTTGGCCAACAATGTCTCAAACATCATCAGGAGATCCACTCCCGAGACAGGAGTACCGTG
W T I L A N N V S N I I T E I H S R D R S T V

1657 GAGGGCCGTGTGACTTTGCGCAAAGTGGAGGAGACCATCGCCGTGCGATGCCTGGCTAAGAATCTCCTT
E G R V T F A K V E E T I A V R C L A K N L L

1726 GGAGCTGAGAACCAGAGAGCTGAAGCTGGTGGCTCCACCCCTGCGTTCTGAACTCAGGGTGGCTGCTGCA
G A E N R E L K L V A P T L R S E L T V A A A

1795 GTCCTGGTGTCTTGGTGATTGTGATCATCTCACTTATTGTCTGCTGGTGTGCTATFTGGAACAGAAACCG
V L V L L V I V I I S L I V L V V I W K Q K P

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Figure 11 continued

1864 AGGTATGAAATTCGCTGGAGGGTCATTGAATCAATCAGCCCGGATGGACATGAATATATTTATGTGGAC
R Y E I R W R V I E S I S P D G H E Y I Y V D

1933 CCGATGCAGCTGCCTTATGACTCAAGATGGGAGTTTCCAAGAGATGGACTAGTGGCTTGGTCGGCTCTTG
P H Q L P Y D S R W E F P R D G L V L G R V L

2002 GGGTCTGGAGCGTTTGGGAAGGTGGTTGAAGGAACAGCCTATCGATTAAGCCGGTCCCAACCTGTCTATG
G S G A F G K V V E G T A Y G L S R S Q P V H

2071 AAAGTTGCAGTGAAGATGCTAAAACCCACGGCCAGATCCAGTGAAAAACAAGCTCTCATGTCTGAACTG
K V A V K H L K P T A R S S E K Q A L H S E L

2140 AAGATAATGACTCACCTGGGGCCACATTGTAACATTGTAACTTGGCTGGGAGCCTGCACCAAGTCAGGC
K I M T H L G P H L N I V N L L G A C T K S G

2209 CCCATTTACATCATCACAGAGTATTGCTTCTATGGAGATTGGTCAACTATTTGCATAAGAATAGGGAT
P I Y I I T E Y C F Y G D L V N Y L H K N R D

2278 AGCTTCCTGAGCCACCACCCAGAGAAGCCAAAGAAAGAGCTGGATATCTTTGGATTGAACCTGCTGAT
S F L S H H P E K P K K E L D I F G L N P A D

2347 GAAAGCACACGGAGCTATGTTATTTATCTTTTGA AAAACAATGGTGACTACATGGACATGAAGCAGGCT
E S T R S Y V I L S F E N N G D Y M D M K Q A

2416 GATACTACACAGTATGTCCCCATGCTAGAAAGGAAAGAGGTTTCTAAATATTCGACATCCAGAGATCA
D T T Q Y V P H L E R K E V S K Y S D I Q R S

2485 CTCTATGATCGTCCAGCCTCATATAAGAAGAAATCTATGTTAGACTCAGAAGTCAAAAACCTCCTTTCA
L Y D R P A S Y K K K S M L D S E V K N L L S

2554 GATGATAACTCAGAAGGCCTTACTTTATTGGATTGTTGAGCTTCACCTATCAAGTTGCCCGAGGAATG
D D N S E G L T L L D L L S F T Y Q V A R G H

2623 GAGTTTTTGGCTTCAAAAAATTGTGTCCACCGTGATCTGGCTGCTCGCAACGTCCTCCTGGCACAAGGA
E F L A S K N C V H R D L A A R N V L L A Q G

2692 AAAATTGTGAAGATCTGTGACTTTGGCCTGGCCAGAGACATCATGCATGATTGAACTATGTGTGAAA
K I V K I C D F G L A R D I H H D S N Y V S K

2761 GGCAGTACCTTTCTGCCCCGTGAAGTGGATGGCTCCTGAGAGCATCTTTCACAACCTCTACACCACACTG
G S T F L P V K W H A P E S I F D N L Y T T L

08960400-1259

2830 AGTGATGTCTGGTCTTATGGCATTCTGCTCTGGGAGATCTTTTCCCTTGGTGGCACCCCTTACCCCGGC
S D V W S Y G I L L W E I F S L G G T P Y P C

2899 ATGATCGTGGATTCTACTTTCTACAATAAGATCAAGAGTGGGTACCGGATGGCCAAGCCTGACCACGCT
H M V D S T F Y N K I K S G Y R M A K P D H A

2968 ACCAGTGAAGTCTACGAGATCATGGTGAATGCTGGAACAGTGAAGCGGAGAAGAGACCCCTCTTTTAC
T S E V Y E I M V K C W N S E P E K R P S F Y

3037 CACCTGAGTGAGATTGTGGAGAATCTGCTGCTGGACAATATAAAAAAGATTATGAAAAATTACCTG
H L S E I V E N L L P G Q Y K K S Y E K I H L

3106 GACTTCCTGAAGAGTGACCATCCTGCTGTGGCAGCATGGTGTGGACTCAGACAATGCATACATTGGT
D F L K S D H P A V A R M R V D S D N A Y I G

3175 GTCACCTACAAAAACGAGGAAGACAAGCTGAAGGACTGGGAGGGTGGTCTGGATGAGCAGAGACTGAGC
V T Y K N E E D K L K D W E G G L D E Q R L S

3244 GCTGACAGTGGCTACATCATTCTGCTGACATTGACCCTGTCCCTGAGGAGGAGGACCTGGGCAAG
A D S G Y I I P L P D I D P V P E E E D L G K

3313 AGGAACAGACACAGCTCGCAGACCTCTGAAGAGAGTGCCATTGAGACGGGTTCCAGCAGTTCCACCTTC
R N R H S S Q T S E E S A I E T G S S S S T F

3382 ATCAAGAGAGAGGACGAGACCATTGAAGACATCGACATGATGGACGACATCGGCATAGACTCTTCAGAC
I K R E D E T I E D I D M H D D I G I D S S D

3451 CTGGTGAAGACAGCTTCTGTAACTGGCGGATTGAGGGGTTCCCTTCCACTTCTGGGGCCACCTCTGG
L V E D S F L

1089

3520 ATCCCGTTTCAGAAAACCACTTTATTGCAATGCGGAGGTTGAGAGGAGGACTTGCTTGATGTTTAAAGAG
3589 AAGTTCCCGAGCCAAGGGCCTCGGGGAGCGTTCTAAATATGAATGAATGGGATATTTTGAATGAACCTT
3658 GTCAGTGTTCCTCTTGCAATGCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAGATAGATGGATA
3727 AGGGAATAATAGGCCACAGAAGGTGAACCTTTGTGCTTCAAGGACATTGGTGAGAGTCCAACAGACACAA
3796 TTTATACTGCGACAGAACTTCAGCATTGTAATTATGTAATAACTCTAACCAAGGCTGTGTTAGATTG
3865 TATTAACATCTTCTTTGGACTTCTGAAGAGACCACTCAATCCATCCTGTACTTCCCTCTTGAACCTG
3934 ATGTAGCTGCTGTTGAACTTTTAAAGAAGTGCATGAAAAACCACTTTTGAACCTTAAAGGTAAGTGGT
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00560400 11259

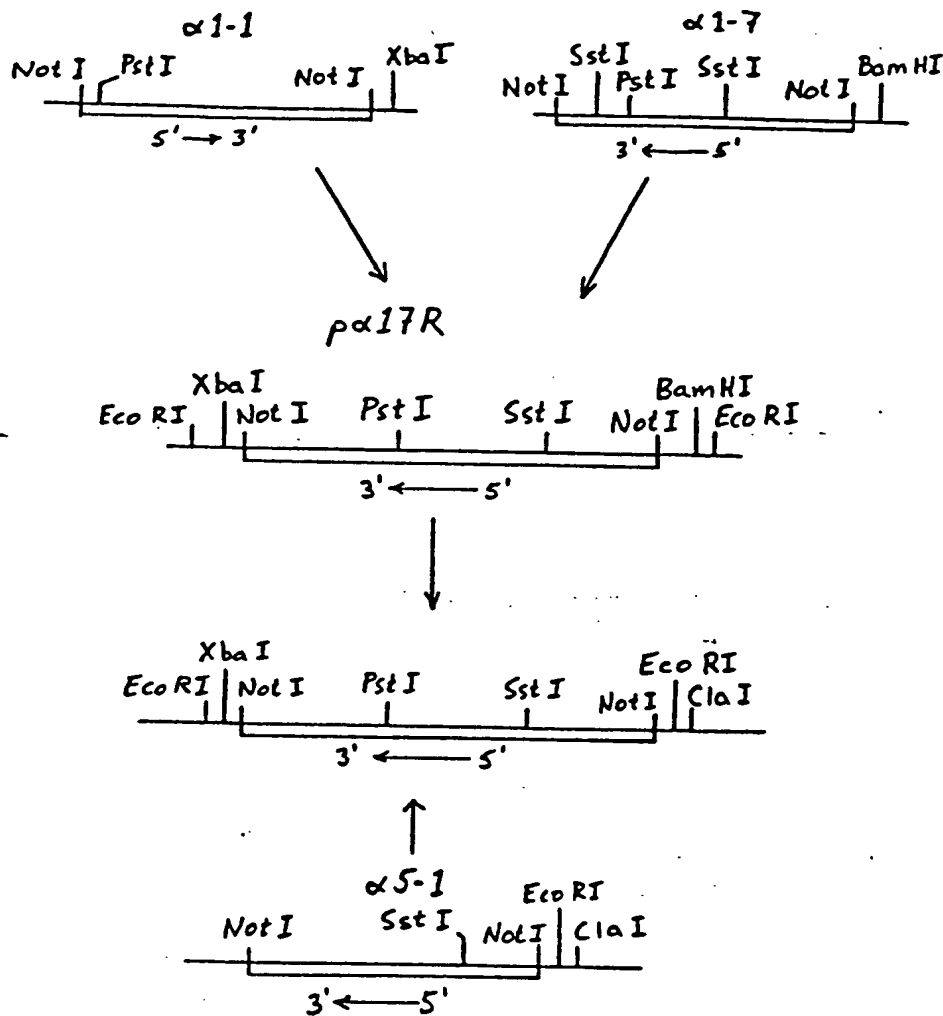


FIGURE 12

0580400 1 1259

1	GGCCCTCAGCCCTGCTGCCCAGCACGAGCCTGTGCTCGCCCTGCCCAACGCAGACAGCCAGACCCAGG	69
70	GCGGCCCCCTCTGGCGGCTCTGCTCCTCCCGAAGGATGCTTGGGGAGTGAGGGCGAAGCTGGGCGCTCCTC	138
139	TCCCCTACAGCAGCCCCCTTCTCCATCCCTCTGTTCTCCTGAGCCTTCAGGAGCCTGCACCAGTCCTG	207
208	CCTGTCCTTCTACTCAGCTGTTACCCACTCTGGGACCAGCAGTCTTTCTGATAACTGGGAGAGGGCAGT	276
277	AAGGAGGACTTCCTGGAGGGGGTGACTGTCCAGAGCCTGGAAGTGTGCCACACCAGAAGCCATCAGCA	345
346	GCAAGGACACCATGCGGCTTCCGGGTGCGATGCCAGCTCTGGCCCTCAAAGGCGAGCTGCTGTTGCTGT	414
	M R L P G A M P A L A L K G E L L L L S	20
415	CTCTCCTGTTACTTCTGGAACACAGATCTCTCAGGGCCTGGTCGTCACACCCCGGGGCCAGAGCTTG	483
	L L L L L E P Q I S Q G L V V T P P G P E L V	43
484	TCCTCAATGTCTCCAGCACCTTCGTTCTGACCTGCTCGGGTTCAGCTCCGGTGGTGTGGGAACGGATGT	552
	L N V S S T F V L T C S G S A P V V W E R M S	66
553	CCCAGGAGCCCCACAGGAAATGGCCAAGGCCAGGATGGCACCTTCTCCAGCGTGCTCACACTGACCA	621
	Q E P P Q E M A K A Q D G T F S S V L T L T N	89
622	ACCTCACTGGGCTAGACACGGGAGAATACTTTTGCACCCACAATGACTCCCGTGGACTGGAGACCGATG	690
	L T G L D T G E Y F C T H N D S R G L E T D E	112
691	AGCGGAAACGGCTCTACATCTTTGTGCCAGATCCCACCGTGGGCTTCCTCCCTAATGATGCCGAGGAAC	759
	R K R L Y I F V P D P T V G F L P N D A E E L	135
760	TATTCATCTTTCTACGGAATAAAGTGAATCACCATTCCATGCCAGTAACAGACCCACAGCTGGTGG	828
	F I F L T E I T E I T I P C R V T D P Q L V V	158
829	TGACACTGCACGAGAAGAAAGGGGACGTTGCACTGCCTGTCCCCTATGATCACCAACGTGGCTTTTCTG	897
	T L H E K K G D V A L P V P Y D H Q R G F S G	181
898	GTATCTTTGAGGACAGAAGCTACATCTGCAAAACCAACATTGGGGACAGGGAGGTGGATTCTGATGCCT	966
	I F E D R S Y I C K T T I G D R E V D S D A Y	204
967	ACTATGTCTACAGACTCCAGGTGTCATCCATCAACGTCTCTGTGAACGCAGTGACAGACTGTGGTCCGCC	1035
	Y V Y R L Q V S S I N V S V N A V Q T V V R Q	227
1036	AGGGTGAGAACATCACCTCATGTGCATTGTGATCGGGAATGAGGTGGTCAACTTCGAGTGGACATACC	1104
	G E N I T L M C I V I G N E V V N F E W T Y P	250
1105	CCCGCAAAGAAAGTGGGCGGCTGGTGGAGCCGGTGACTGACTTCCTCTTGGATATGCCTTACCACATCC	1173
	R K E S G R L V E P V T D F L L D M P Y H I R	273
1174	GCTCCATCCTGCACATCCCCAGTGCCGAGTTAGAAGACTCGGGGACCTACACCTGCAATGTGACGGAGA	1242
	S I L H I P S A E L E D S G T Y T C N V T E S	296
1243	GTGTGAATGACCATCAGGATGAAAAGGCCATCAACATCACCGTGGTTGAGAGCGGCTACGTGCGGCTCC	1311
	V N D H Q D E K A I N I T V V E S G Y V R L L	319

Fig. 1A

1312	TGGGAGAGGTGGGACACTACAAATTTGCTGAGCTGCATCGGAGCCGGACACTGCAGGTTAGTGTTCGAGG	1380
	G E V G T L Q F A E L H R S R T L Q V V F E A	342
1381	CCTACCCACCGCCCACTGTCTGTGGTTCAAAGACAACCGCACCCCTGGGCGACTCCAGCGCTGGCGAAA	1449
	Y P P P T V L W F K D N R T L G D S S A G E I	365
1450	TCGCCCTGTCCACGCGCAACGTGTGCGGAGACCCGGTATGTGTGTCAGAGCTGACACTGGTTTCGCGTGAAGG	1518
	A L S T R N V S E T R Y V S E L T L V R V K V	388
1519	TGGCAGAGGCTGGCCACTACACCATGCGGGCCTTCCATGAGGATGCTGAGGTCCAGCTCTCCTTCCAGC	1587
	A E A G H Y T M R A F H E D A E V Q L S F Q L	411
1588	TACAGATCAATGTCCCTGTCCGAGTGCTGGAGCTAAGTGAGAGCCACCCTGACAGTGGGGAACAGACAG	1656
	Q I N V P V R V L E L S E S H P D S G E Q T V	434
1657	TCCGCTGTGCTGGCCGGGGCATGCCCCAGCCGAACATCATCTGGTCTGCCTGCAGAGACCTCAAAAGGT	1725
	R C R G R G M P Q P N I I W S A C R D L K R C	457
1726	GTCCACGTGAGCTGCCGCCCCACGCTGCTGGGGAACAGTTCCGAAGAGGAGAGCCAGCTGGAGACTAACG	1794
	P R E L P P T L L G N S S E E E S Q L E T N V	480
1795	TGACGTACTGGGAGGAGGAGCAGGAGTTTGAGGTGGTGAGCACACTGCGTCTGCAGCACGTGGATCGGC	1863
	T Y W E E E Q E F E V V S T L R L Q H V D R P	503
1864	CACTGTGCGGTGCGCTGCACGCTGCGCAACGCTGTGGGGCCAGGACACGCAGGAGGTTCATCGTGGTGCCAC	1932
	L S V R C T L R N A V G Q D T Q E V I V V P H	526
1933	ACTCCTTGCCCTTTAAGGTGGTGGTGATCTCAGCCATCCTGGCCCTGGTGGTGCTCACCATCATCTCCC	2001
	S L P F K V V V I S A I L A L V V L T I I S L	549
2002	TTATCATCCTCATCATGCTTTGGCAGAAGAAGCCACGTTACGAGATCCGATGGAAGGTGATTGAGTCTG	2070
	I I L I M L W Q K K P R Y E I R W K V I E S V	572
2071	TGAGCTCTGACGGCCATGAGTACATCTACGTGGACCCCATGCAGCTGCCCTATGACTCCACGTGGGAGC	2139
	S S D G H E Y I Y V D P M Q L P Y D S T W E L	595
2140	TGCCGCGGGACCAGCTTGTGCTGGGACGCACCCTCGGCTCTGGGGCCTTTGGGCAGGTGGTGGAGGCCA	2208
	P R D Q L V L G R T L G S G A F G Q V V E A T	618
2209	CGGCTCATGGCCTGAGCCATTCTCAGGCCACGATGAAAGTGCCCGTCAAGATGCTTAAATCCACAGCCC	2277
	A H G L S H S Q A T M K V A V K M L K S T A R	641
2278	GCAGCAGTGAGAAGCAAGCCCTTATGTGCGGAGCTGAAGATCATGAGTCACCTTGGGCCCCACCTGAACG	2346
	S S E K Q A L M S E L K I M S H L G P H L N V	664
2347	TGGTCAACCTGTTGGGGGCCTGCACCAAAGGAGGACCCATCTATATCATCACTGAGTACTGCCGCTACG	2415
	V N L L G A C T K G G P I Y I I T E Y C R Y G	687
2416	GAGACCTGGTGGACTACCTGCACCGCAACAAACACACCTTCCTGCAGCACCCTCCGACAAGCGCCGCC	2484
	D L V D Y L H R N K H T F L Q H H S D K R R P	710
2485	CGCCAGCGCGGAGCTCTACAGCAATGCTCTGCCCGTTGGGCTCCCCCTGCCAGCCATGTGTCTCTTGA	2553
	P S A E L Y S N A L P V G L P L P S H V S L T	733

Fig. 1B

2554 CCGGGGAGAGCGACGGTGGCTACATGGACATGAGCAAGGACGAGTCGGTGGACTATGTGCCCATGCTGG 2622
 G E S D G G Y M D M S K D E S V D Y V P M L D 756

2623 ACATGAAAGGAGACGTCAAATATGCAGACATCGAGTCCTCCAACCTACATGGCCCCCTTACGATAACTACG 2691
 M K G D V K Y A D I E S S N Y M A P Y D N Y V 779

2692 TTCCCTCTGCCCCTGAGAGGACCTGCCGAGCAACTTTGATCAACGAGTCTCCAGTGCTAAGCTACATGG 2760
 P S A P E R T C R A T L I N E S P V L S Y M D 802

2761 ACCTCGTGGGCTTCAGCTACCAGGTGGCCAATGGCATGGAGTTTCTGGCCTCCAAGAACTGCGTCCACA 2829
 L V G F S Y Q V A N G M E P L A S K N C V H R 825

2830 GAGACCTGGCGGCTAGGAACGTGCTCATCTGTGAAGGCAAGCTGGTCAAGATCTGTGACTTTGGCCTGG 2898
 D L A A R N V L I C E G K L V K I C D F G L A 848

2899 CTCGAGACATCATGCGGGACTCGAATTACATCTCCAAAGGCAGCACCTTTTTGCCTTTAAAGTGGATGG 2967
 R D I M R D S N Y I S K G S T F L P L K W M A 871

2968 CTCCGGAGAGCATCTTCAACAGCCTCTACACCACCCTGAGCGACGTGTGGTCTTCGGGATCCTGCTCT 3036
 P E S I F N S L Y T T L S D V W S F G I L L W 894

3037 GGGAGATCTTCACCTTGGGTGGCACCCTTACCCAGAGCTGCCCATGAACGAGCAGTTCTACAATGCCA 3105
 E I F T L G G T P Y P E L P M N E Q F Y N A I 917

3106 TCAAACGGGGTTACCGCATGGCCCCAGCCTGCCCATGCCTCCGACGAGATCTATGAGATCATGCAGAAGT 3174
 K R G Y R M A Q P A H A S D E I Y E I M Q K C 940

3175 GCTGGGAAGAGAAGTTTGAGATTCGGCCCCCCTTCTCCAGCTGGTGCTGCTTCTCGAGAGACTGTTGG 3243
 W E E K F E I R P P F S Q L V L L L E R L L G 963

3244 GCGAAGGTTACAAAAGAAGTACCAGCAGGTGGATGAGGAGTTTCTGAGGAGTGACCACCCAGCCATCC 3312
 E G Y K K K Y Q Q V D E E F L R S D H P A I L 986

3313 TTCGGTCCCAGGCCCGCTTGCCTGGGTTCATGGCCTCCGATCTCCCCTGGACACCAGCTCCGTCTCT 3381
 R S Q A R L P G F H G L R S P L D T S S V L Y 1009

3382 ATACTGCCGTGCAGCCCCAATGAGGGTGACAACGACTATATCATCCCCCTGCCTGACCCCCAAACCCGAGG 3450
 T A V Q P N E G D N D Y I I P L P D P K P E V 1032

3451 TTGCTGACGAGGGGCCACTGGAGGGTTCCCCCAGCCTAGCCAGCTCCACCCTGAATGAAGTCAACACCT 3519
 A D E G P L E G S P S L A S S T L N E V N T S 1055

3520 CCTCAACCATCTCCTGTGACAGCCCCCTGGAGCCCCAGGACGAACCAGAGCCAGAGCCCCAGCTTGAGC 3588
 S T I S C D S P L E P Q D E P E P E P Q L E L 1078

3589 TCCAGGTGGAGCCGGAGCCAGAGCTGGAACAGTTGCCGGATTGGGGTGCCCTGCGCCTCGGGCGGAAG 3657
 Q V E P E P E L E Q L P D S G C P A P R A E A 1101

3658 CAGAGGATAGCTTCCTGTAGGGGGCTGGCCCCCTACCCTGCCCTGCCTGAAGCTCCCCCCTGCCAGCAC 3726
 E D S F L . 1106

3727 CCAGCATCTCCTGGCCTGGCCTGACCGGGCTTCCTGTCAGCCAGGCTGCCCTTATCAGCTGTCCCCTTC 3795

Fig. 1C

3796 TGGAAGCTTTCTGCTCCTGACGTGTTGTGCCCCAAACCCTGGGGCTGGCTTAGGAGGCAAGAAAACTGC 3864
3865 AGGGGCCGTGACCAGCCCTCTGCCTCCAGGGAGGCCAACTGACTCTGAGCCAGGGTTCCCCAGGGAAC 3933
3934 TCAGTTTCCCATATGTAAGATGGGAAAGTTAGGCTTGATGACCCAGAATCTAGGATTCTCTCCCTGGC 4002
4003 TGACACGGTGGGGAGACCGAATCCCTCCCTGGGAAGATTCTTGGAGTTACTGAGGTGGTAAATTAACAT 4071
4072 TTTTCTGTTCAGCCAGCTACCCCTCAAGGAATCATAGCTCTCTCCTCGCACTTTTTATCCACCCAGGA 4140
4141 GCTAGGGAAGAGACCCTAGCCTCCCTGGCTGCTGGCTGAGCTAGGGCCTAGCTTGAGCAGTGTGCTC 4209
4210 ATCCAGAAGAAAGCCAGTCTCCTCCCTATGATGCCAGTCCCTGCGTTCCCTGGCCCGAGCTGGTCTGGG 4278
4279 GCCATTAGGCAGCCTAATTAATGCTGGAGGCTGAGCCAAGTACAGGACACCCCCAGCCTGCAGCCCTTG 4347
4348 CCCAGGGCACTTGGAGCACACGCAGCCATAGCAAGTGCCTGTGTCCCTGTCCTTCAGGCCCATCAGTCC 4416
4417 TGGGGCTTTTTCTTTATCACCCCTCAGTCTTAATCCATCCACCAGAGTCTAGAAGGCCAGACGGGCCCCG 4485
4486 CATCTGTGATGAGAATGTAAATGTGCCAGTGTGGAGTGGCCACGTGTGTGTGCCAGTATATGGCCCTGG 4554
4555 CTCTGCATTGGACCTGCTATGAGGCTTTGGAGGAATCCCTCACCCCTCTCTGGGCCTCAGTTTCCCCTTC 4623
4624 AAAAAATGAATAAGTCGGACTTATTAAGTCTGAGTGCCTTGCCAGCACTAACATTCTAGAGTATTCCAG 4692
4693 GTGGTGACATTTGTCCAGATGAAGCAAGGCCTATACCCTAAACTTCATCCTGGGGGTGAGCTGGGCTC 4761
4762 CTGGGAGATTCCAGATCACACATCACTCTGGGGACTCAGGAACCATGCCCCCTTCCCCAGGCCCCCAG 4830
4831 CAAGTCTCAAGAACACAGCTGCACAGGCCTTGACTTAGAGTGACAGCCGGTGTCTGGAAAGCCCCAAG 4899
4900 CAGCTGCCCCAGGGACATGGGAAGACCACGGGACCTCTTCACTACCCACGATGACCTCCGGGGGTATC 4968
4969 CTGGGCAAAAGGGACAAAGAGGGCAATGAGATCACCTCCTGCAGCCCACCACTCCAGCACCTGTGCCG 5037
5038 AGGTCTGCGTCGAAGACAGAATGGACAGTGAGGACAGTTATGTCTTGTAAGACAAGAAGCTTCAGAT 5106
5107 GGTACCCCAAGAAGGATGTGAGAGGTGGCTGCTTTGGAGTTTGCCCCCTCACCCACCACTGCCCCAT 5175
5176 CCCTGAGGCATGCGCTCCATGGGGGTATGGTPTTGTCACTGCCAGACCTAGCAGTGACATCTCATTTGT 5244
5245 CCCCAGCCCAGTGGGCATTGGAGGTGCCAGGGGAGTCAGGGTTGTAGCCAAGACGCCCCCGCACGGGGA 5313
5314 GGGTTGGGAAGGGGGTGCAGGAAGCTCAACCCCTCTGGGCACCAACCTGCATTGCAGGTTGGCACCTT 5382
5383 ACTTCCCTGGGATCCCCAGAGTTGGTCCAAGGAGGGAGAGTGGGTTCTCAATACGGTACCAAAGATATA 5451
5452 ATCACCTAGGTTTACAAATATTTTTAGGACTCACGTAACTCACATTTATACAGCAGAAATGCTATTTT 5520
5521 GTATGCTGTAAAGTTTTTCTATCTGTGTACTTTTTTTTAAGGGAAAGATTTT 5572

Fig. 1D

Figure 2

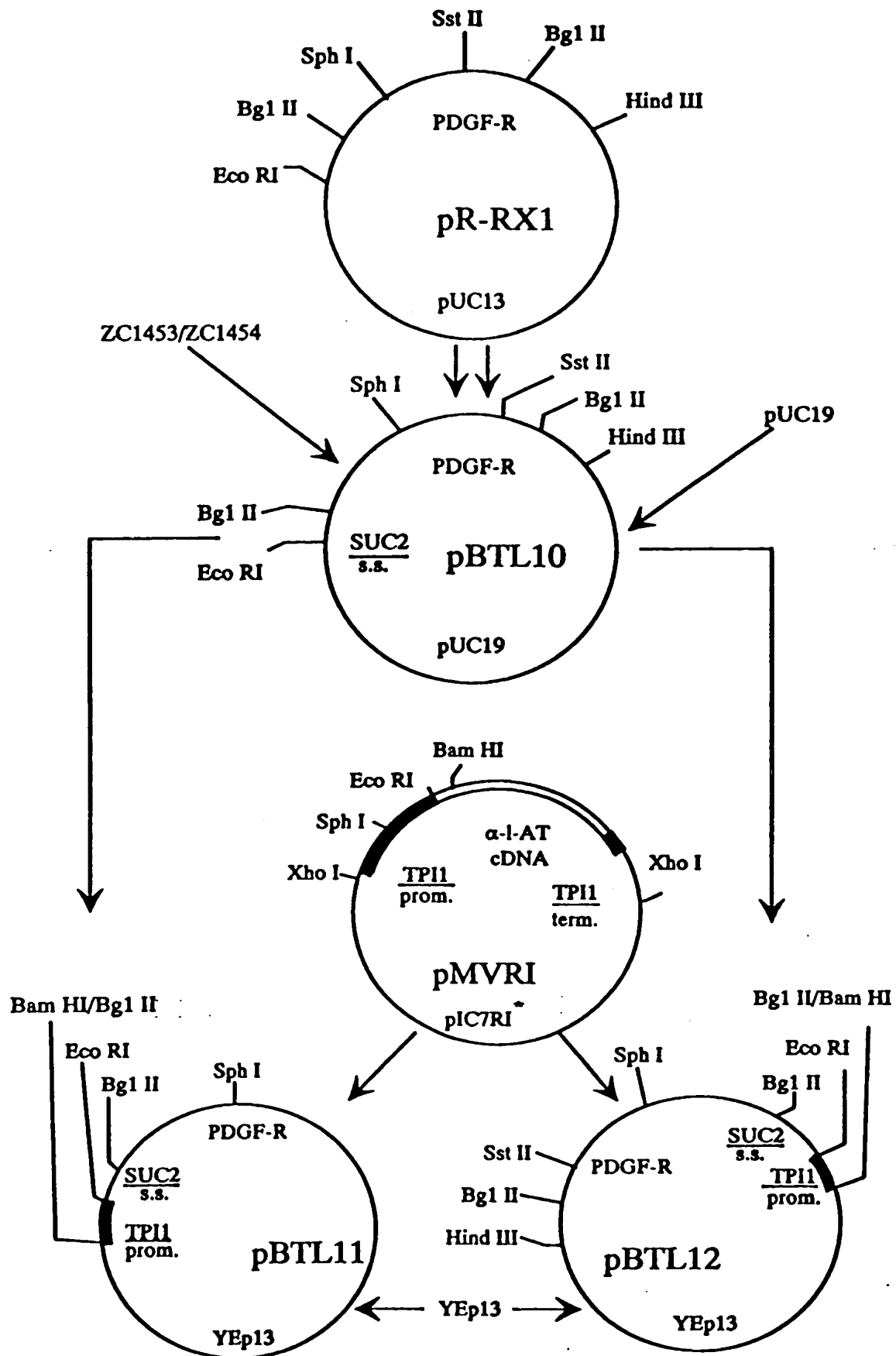
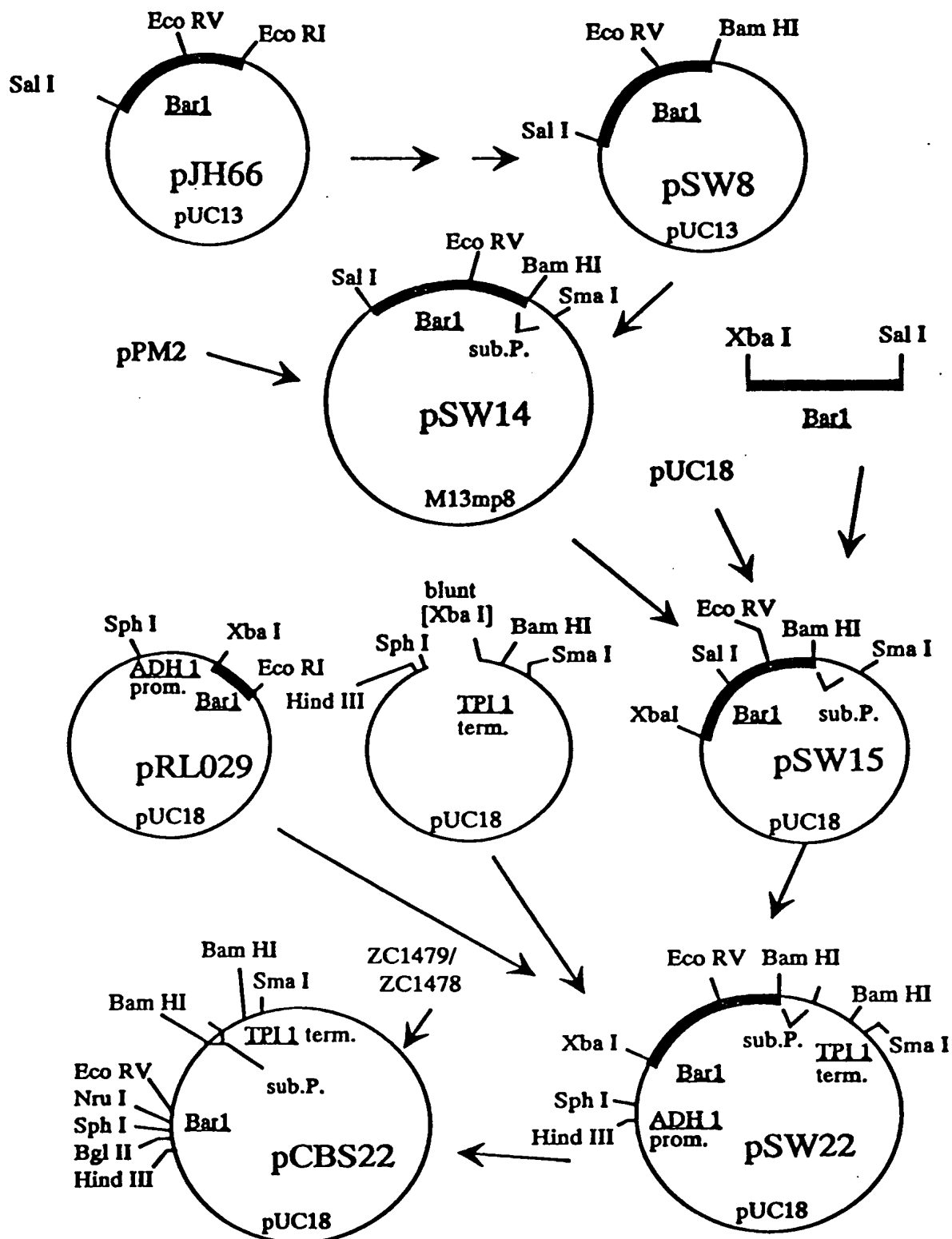


Figure 3



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Figure 4

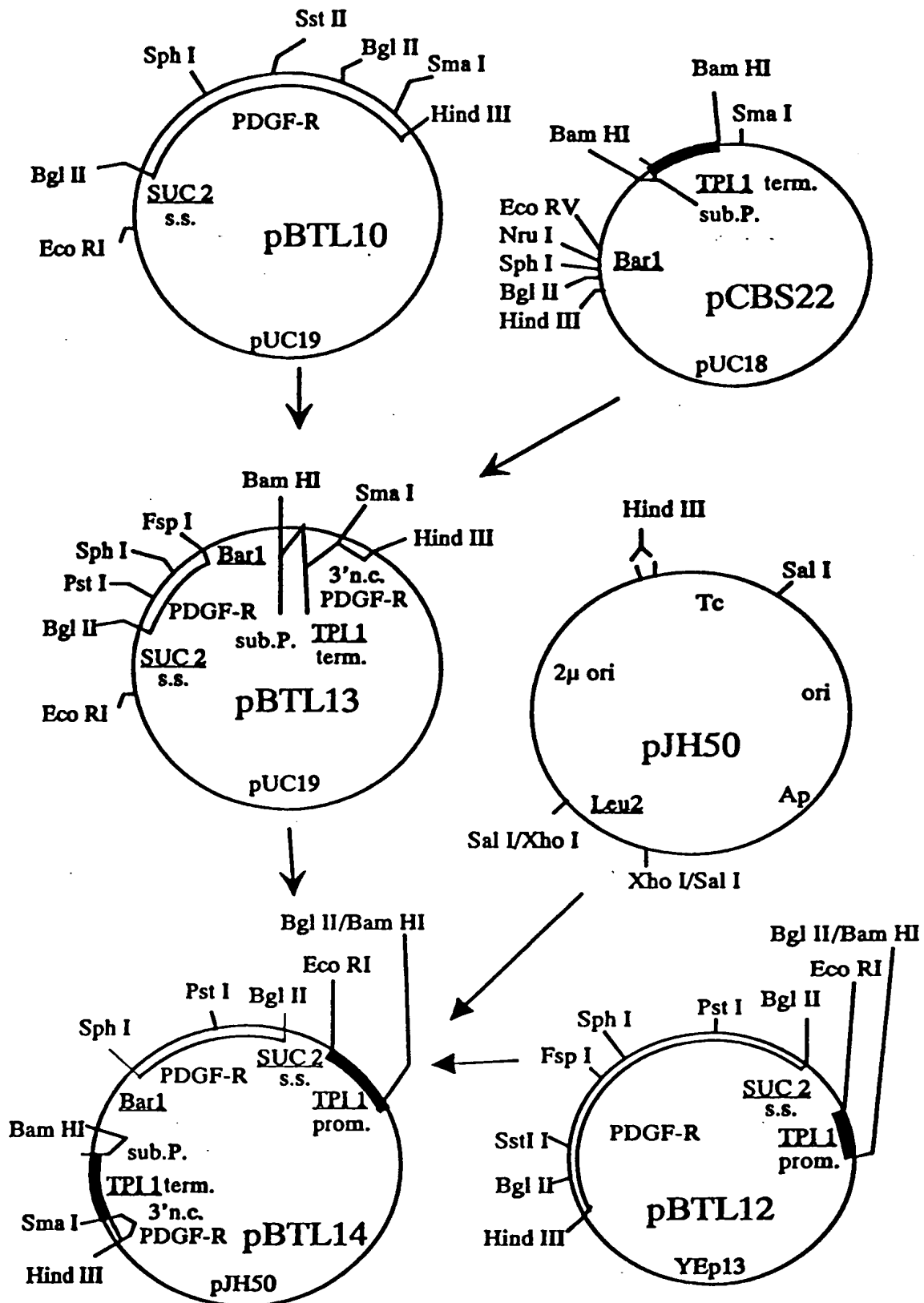


Figure 5

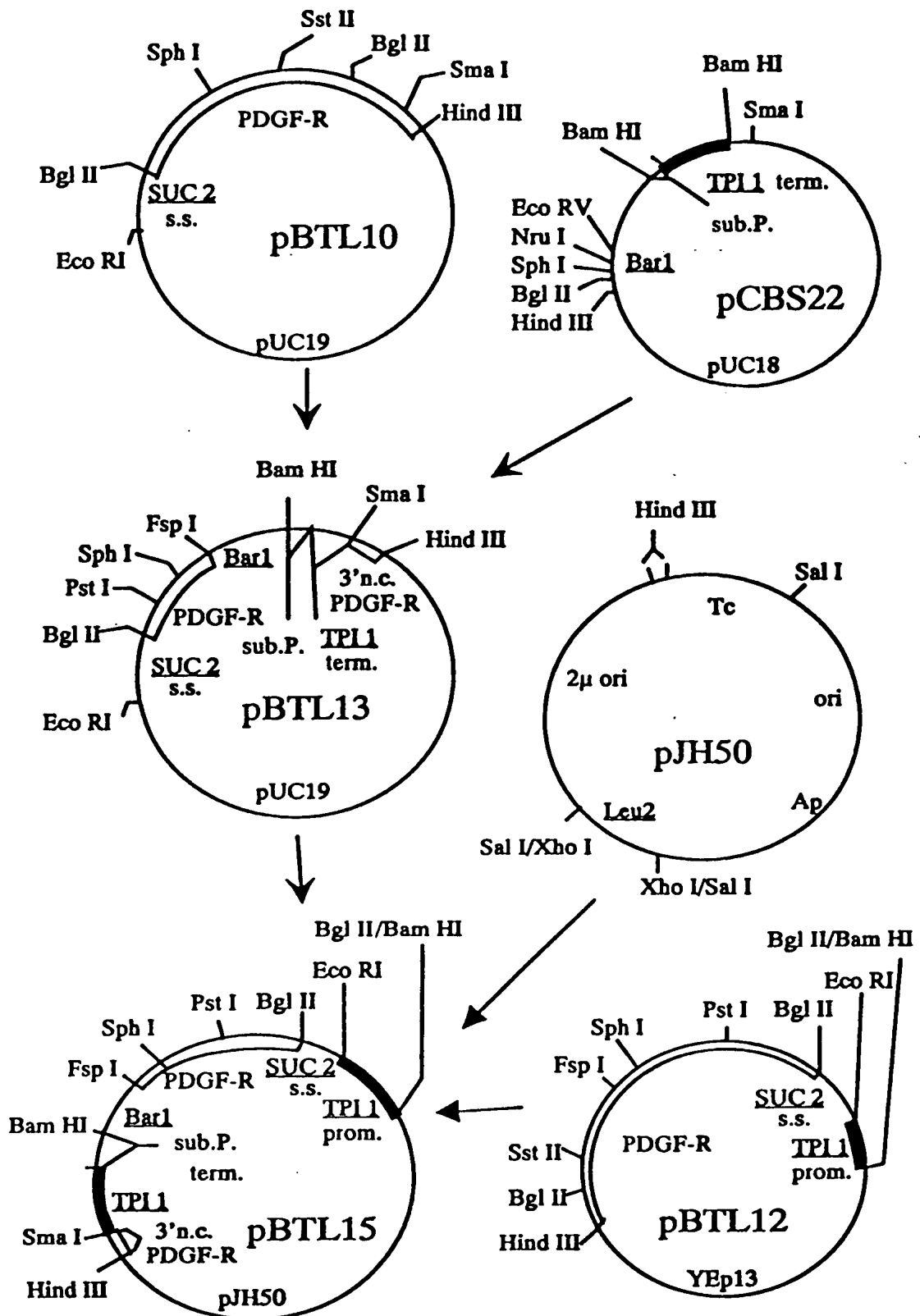
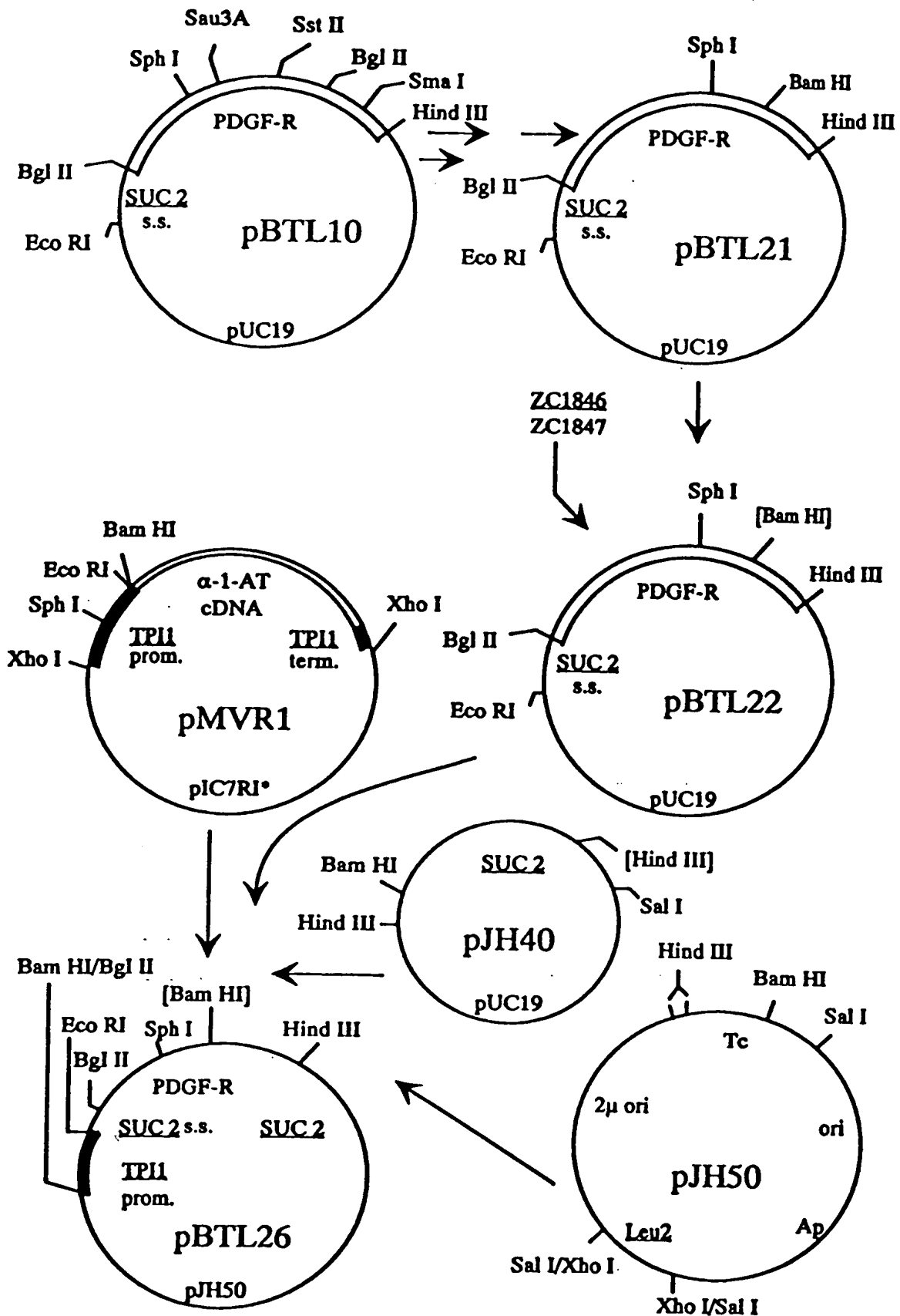
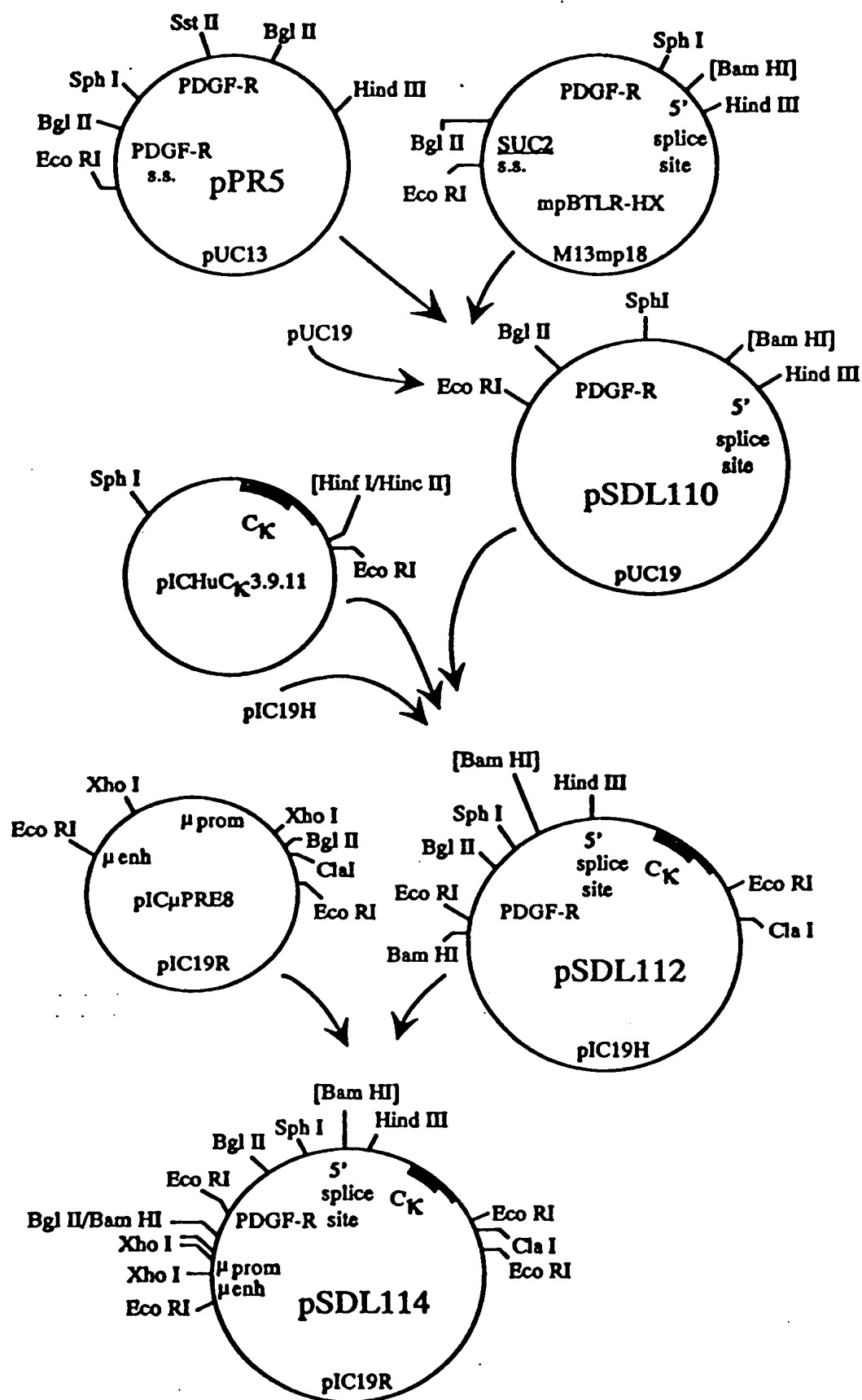


Figure 6



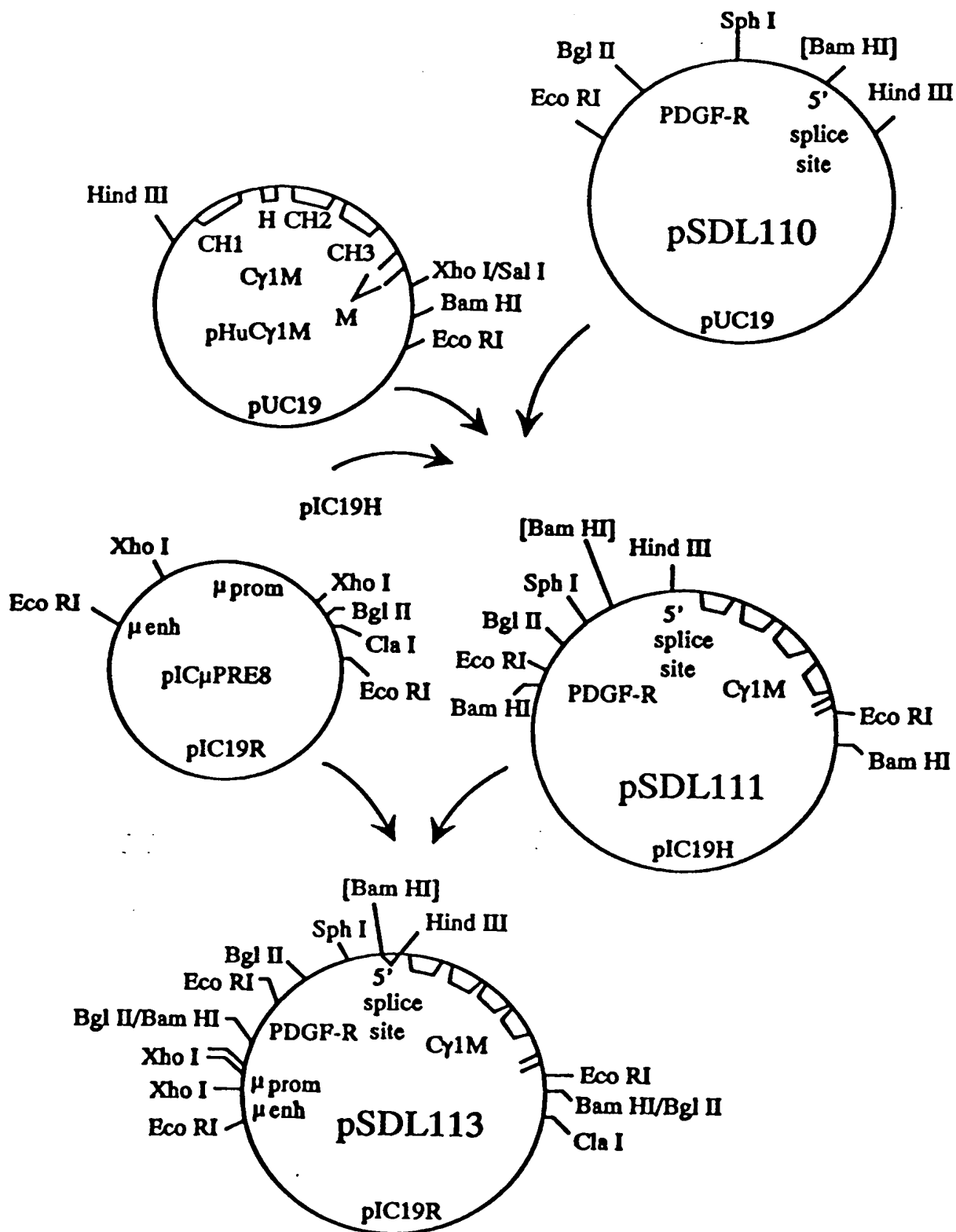
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Figure 7



259377-00499500

Figure 8



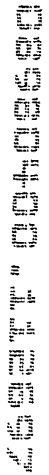
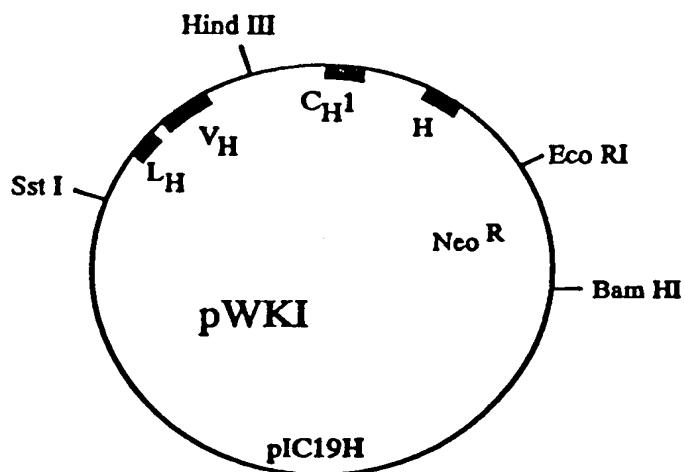
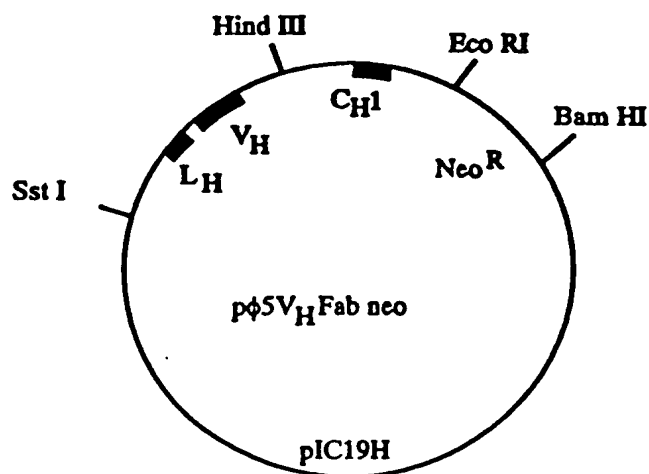
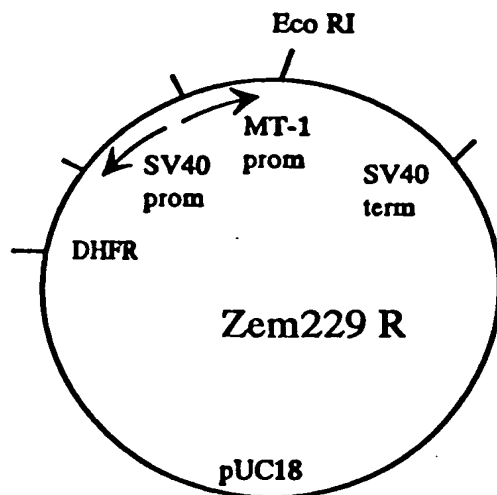
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Figure 10



[illegible]

1 GCCCTGGGGACGGACCGTGGGCGGCGCGCAGCGGCGGGACGCGTTTTGGGGACGTGGTGGCCAGCGCCT
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139 TGGAAAAGTGACAATTCTAGGAAAAGAGCTAAAAGCCGGATCGGTGACCGAAAGTTTCCAGAGCTATG
M
1

208 GGGACTTCCCATCCGGCGTTCCTGGTCTTAGGCTGTCTTCTCACAGGGCTGAGCCTAATCCTCTGCCAG
G T S H P A F L V L G C L L T G L S L I L C Q

277 CTTTCATTACCTCTATCCTTCCAAATGAAATGAAAAGTTGTGCAGCTGAATTCATCCTTTTCTCTG
L S L P S I L P N E N E K V V Q L N S S F S L

346 AGATGCTTTGGGGAGAGTGAAGTGAGCTGGCAGTACCCCATGTCTGAAGAAGAGAGCTCCGATGTGGAA
R C F G E S E V S W Q Y P M S E E E S S D V E

415 ATCAGAAATGAAGAAAACAACAGCGGCCTTTTTGTGACGGTCTTGGAAGTGAGCAGTGCCTCGGCGGCC
I R N E E N N S G L F V T V L E V S S A S A A

484 CACACAGGGTTGTACACTTGCTATTACAACCACACTCAGACAGAAGAGAATGAGCTTGAAGGCAGGCAC
H T G L Y T C Y Y N H T Q T E E N E L E G R H

553 ATTTACATCTATGTGCCAGACCCAGATGTAGCCTTTGTACCTCTAGGAATGACGGATTATTTAGTCATC
I Y I Y V P D P D V A F V P L G M T D Y L V I

622 GTGGAGGATGATGATTCTGCCATTATACCTTGTGCGACAACCTGATCCCGAGACTCCTGTAACCTTACAC
V E D D D S A I I P C R T T D P E T P V T L H

691 AACAGTGAGGGGGTGGTACCTGCCTCCTACGACAGCAGACAGGGCTTTAATGGGACCTTCACTGTAGGG
N S E G V V P A S Y D S R Q G F N G T F T V G

760 CCCTATATCTGTGAGGCCACCGTCAAAGGAAAGAAGTTCCAGACCATCCCATTTAATGTTTATGCTTTA
P Y I C E A T V K G K K F Q T I P F N V Y A L

829 AAAGCAACATCAGAGCTGGATCTAGAAATGGAAGCTCTTAAACCGTGTATAAGTCAGGGGAAACGATT
K A T S E L D L E M E A L K T V Y K S G E T I

898 GTGGTCACCTGTGCTGTTTTTAACAATGAGGTGGTTGACCTTCAATGGACTTACCCTGGAGAAGTGAAA
V V T C A V F N N E V V D L Q W T Y P G E V K

Figure 11B

967 GGCAAAGGCATCACAACTACTGGAAGAAATCAAAGTCCCATCCATCAAATTGGTGTACACTTTGACGGTC
G K G I T I L E E I K V P S I K L V Y T L T V

1036 CCCGAGGCCACGGTGAAAGACAGTGGAGATTACGAATGTGCTGCCCGCCAGGCTACCAGGGAGGTCAAA
P E A T V K D S G D Y E C A A R Q A T R E V K

1105 GAAATGAAGAAAGTCACTATTTCTGTCCATGAGAAAGTTTCATTGAAATCAAACCCACCTTCAGCCAG
E M K K V T I S V H E K G F I E I K P T F S Q

1174 TTGGAAGCTGTCAACCTGCATGAAGTCAAACATTTTGTGTAGAGGTGCGGGCCTACCCACCTCCCAGG
L E A V N L H E V K H F V V E V R A Y P P P R

1243 ATATCCTGGCTGAAAAACAATCTGACTCTGATTGAAAATCTCACTGAGATCACCCTGATGTGAAAAAG
I S W L K N N L T L I E N L T E I T T D V E K

1312 ATTCAGGAAATAAGGTATCGAAGCAAATTAAGCTGATCCGTGCTAAGGAAGAAGACAGTGGCCATTAT
I Q E I R Y R S K L K L I R A K E E D S G H Y

1381 ACTATTGTAGCTCAAAATGAAGATGCTGTGAAGAGCTATACTTTTGAAGTGTAACTCAAGTTCCTTCA
T I V A Q N E D A V K S Y T F E L L T Q V P S

1450 TCCATTCTGGACTTGGTCGATGATCACCATGGCTCAACTGGGGGACAGACGGTGAGGTGCACAGCTGAA
S I L D L V D D H H G S T G G Q T V R C T A E

1519 GGCACGCCGCTTCCTGATATTGAGTGGATGATATGCAAAGATATTAAGAAATGTAATAATGAAACTTCC
G T P L P D I E W M I C K D I K K C N N E T S

1588 TGGACTATTTTGGCCAACAATGTCTCAACATCATCACGGAGATCCACTCCCGAGACAGGAGTACCGTG
W T I L A N N V S N I I T E I H S R D R S T V

1657 GAGGGCCGTGTGACTTTTCGCCAAAGTGGAGGAGACCATCGCCGTGCGATGCCTGGCTAAGAATCTCCTT
E G R V T F A K V E E T I A V R C L A K N L L

1726 GGAGCTGAGAACCGAGAGCTGAAGCTGGTGGCTCCCACCCTGCGTTCTGAACTCACGGTGGCTGCTGCA
G A E N R E L K L V A P T L R S E L T V A A A

1795 GTCCTGGTGTGTTGGTGATTGTGATCATCTCACTTATTGTCCTGGTTGTCAATTGGAAACAGAAACCG
V L V L L V I V I I S L I V L V V I W K Q K P

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Figure 11C

1864 AGGTATGAAATTCGCTGGAGGGTCATTGAATCAATCAGCCCGGATGGACATGAATATATTTATGTGGAC
R Y E I R W R V I E S I S P D G H E Y I Y V D

1933 CCGATGCAGCTGCCTTATGACTCAAGATGGGAGTTTCCAAGAGATGGACTAGTGCTTGGTCGGGTCTTG
P M Q L P Y D S R W E F P R D G L V L G R V L

2002 GGGTCTGGAGCGTTTGGGAAGGTGGTTGAAGGAACAGCCTATGGATTAAGCCGGTCCCAACCTGTCATG
G S G A F G K V V E G T A Y G L S R S Q P V M

2071 AAAGTTGCAGTGAAGATGCTAAAACCCACGGCCAGATCCAGTGAAAAACAAGCTCTCATGTCTGAACTG
K V A V K M L K P T A R S S E K Q A L M S E L

2140 AAGATAATGACTCACCTGGGGCCACATTTGAACATTGTAACTTGCTGGGAGCCTGCACCAAGTCAGGC
K I M T H L G P H L N I V N L L G A C T K S G

2209 CCCATTTACATCATCACAGAGTATTGCTTCTATGGAGATTTGGTCAACTATTTGCATAAGAATAGGGAT
P I Y I I T E Y C F Y G D L V N Y L H K N R D

2278 AGCTTCCTGAGCCACCACCCAGAGAAGCCAAAGAAAGAGCTGGATATCTTTGGATTGAACCCTGCTGAT
S F L S H H P E K P K K E L D I F G L N P A D

2347 GAAAGCACACGGAGCTATGTTATTTTATCTTTTGAAAACAATGGTGACTACATGGACATGAAGCAGGCT
E S T R S Y V I L S F E N N G D Y M D M K Q A

2416 GATACTACACAGTATGTCCCATGCTAGAAAGGAAAGAGGTTTCTAAATATTCCGACATCCAGAGATCA
D T T Q Y V P M L E R K E V S K Y S D I Q R S

2485 CTCTATGATCGTCCAGCCTCATATAAGAAGAAATCTATGTTAGACTCAGAAGTCAAAAACCTCCTTTCA
L Y D R P A S Y K K K S M L D S E V K N L L S

2554 GATGATAACTCAGAAGGCCTTACTTTATTGGATTTGTTGAGCTTCACCTATCAAGTTGCCCCGAGGAATG
D D N S E G L T L L D L L S F T Y Q V A R G M

2623 GAGTTTTTGGCTTCAAAAAATTGTGTCCACCGTGATCTGGCTGCTCGCAACGTCCTCCTGGCACAAGGA
E F L A S K N C V H R D L A A R N V L L A Q G

2692 AAAATTGTGAAGATCTGTGACTTTGGCCTGGCCAGAGACATCATGCATGATTGCAACTATGTGTGCGAAA
K I V K I C D F G L A R D I M H D S N Y V S K

2761 GGCAGTACCTTTCTGCCCGTGAAGTGGATGGCTCCTGAGAGCATCTTTGACAACCTCTACACCACACTG
G S T F L P V K W M A P E S I F D N L Y T T L

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Figure 11D

2830 AGTGATGTCTGGTCTTATGGCATTCTGCTCTGGGAGATCTTTTCCCTTGGTGGCACCCCTTACCCCGGC
S D V W S Y G I L L W E I F S L G G T P Y P G

2899 ATGATGGTGGATTCTACTTTCTACAATAAGATCAAGAGTGGGTACCGGATGGCCAAGCCTGACCACGCT
M M V D S T F Y N K I K S G Y R M A K P D H A

2968 ACCAGTGAAGTCTACGAGATCATGGTGAAATGCTGGAACAGTGAGCCGGAGAAGAGACCCTCCTTTTAC
T S E V Y E I M V K C W N S E P E K R P S F Y

3037 CACCTGAGTGAGATTGTGGAGAATCTGCTGCCTGGACAATATAAAAAAGAGTTATGAAAAAATTCACCTG
H L S E I V E N L L P G Q Y K K S Y E K I H L

3106 GACTTCCTGAAGAGTGACCATCCTGCTGTGGGCACGCATGCGTGTGGACTCAGACAATGCATACATTGGT
D F L K S D H P A V A R M R V D S D N A Y I G

3175 GTCACCTACAAAAACGAGGAAGACAAGCTGAAGGACTGGGAGGGTGGTCTGGATGAGCAGAGACTGAGC
V T Y K N E E D K L K D W E G G L D E Q R L S

3244 GCTGACAGTGGCTACATCATTCTCTGCCTGACATTGACCCTGTCCCTGAGGAGGAGGACCTGGGCAAG
A D S G Y I I P L P D I D P V P E E E D L G K

3313 AGGAACAGACACAGCTCGCAGACCTCTGAAGAGAGTGCCATTGAGACGGGTTCCAGCAGTTCCACCTTC
R N R H S S Q T S E E S A I E T G S S S S T F

3382 ATCAAGAGAGAGGACGAGACCATTGAAGACATCGACATGATGGACGACATCGGCATAGACTCTTCAGAC
I K R E D E T I E D I D M M D D I G I D S S D

3451 CTGGTGGAAGACAGCTTCCTGTAACTGGCGGATTCGAGGGGTTCTTCCACTTCTGGGGCCACCTCTGG
L V E D S F L

1089

3520 ATCCCGTTCAGAAAACCACTTTATTGCAATGCGGAGGTTGAGAGGAGGACTTGGTTGATGTTTAAAGAG
3589 AAGTTCCCAGCCAAGGGCCTCGGGGAGCGTTCTAAATATGAATGAATGGGATATTTTGAATGAACCTT
3658 GTCAGTGTTCCTCTTGCAATGCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAGATAGATGGATA
3727 AGGGAATAATAGGCCACAGAAGGTGAACTTTGTGCTTCAAGGACATTGGTGAGAGTCCAACAGACACAA
3796 TTTATACTGCGACAGAAGTTCAGCATTGTAATTATGTAAATAACTCTAACCAAGGCTGTGTTTAGATTG
3865 TATTAATACTCTTCTTTGGACTTCTGAAGAGACCACTCAATCCATCCTGTACTTCCCTCTTGAAACCTG
3934 ATGTAGCTGCTGTTGAACTTTTTTAAAGAAGTGCATGAAAAACCATTTTTTGAACCTTAAAGGTACTGGT
4003 ACTATAGCATTTTGCTATCTTTTTTAGTGTTAAAGAGATAAAGAATAATAAG

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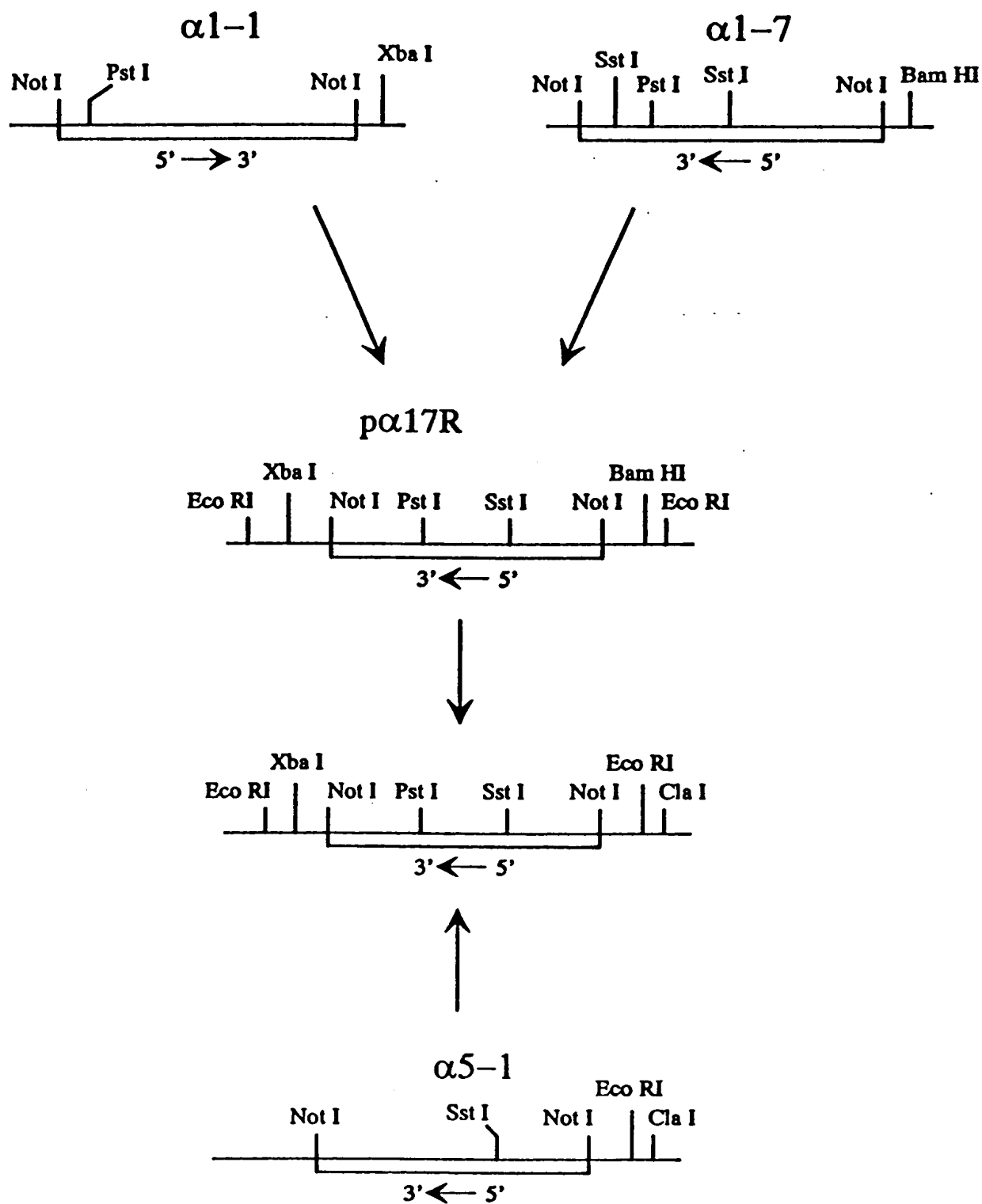


Figure 12